

OHICKSTUDY: MEMS like the micromachines shown here beside a dust mite can do things that bigger machines can't, PAGE 30

PREMIER 100: IT exces such as ChoicePoint's Darryl Lemecha view crises as both challenges and opportunities for leadership, PAGE 6

IPUI

VA Slow to

Strengthen IT Security

Agency has made some gains but still faces data risks, federal auditors say

The U.S. Department of Veterans Affairs still hasn't adequately addressed many of the internal IT security shortcomines cited following the loss last May of a laptop with personal data on 26.5 million veterans and active-duty personnel, according to fed-

eral covernment and agency auditors. As a result, sensitive data is still at risk of being accidentally or deliberately misused across the VA, the auditors warned last week at a congress sional bearing on the

accepta's information and security management processes. In response, VA Deputy Secretary Gordon Mansfield said the agency is working hard to implement a series of recommended changes and has made "substantial progress in a relatively short time frame." He acknowledged, though,

that the VA has yet to achieve its overall goal of becoming a security role model for other federal agencies.

"We have done a lot of work and come a long way since last May's major incident occurred." Mansfield said. "But we still have an swful lone way to go." The hearing was held

by the oversight and investigations subcommittee of the House Committee on Veter ans' Affairs. Rep. Harry Mitchell (D-Ariz.), the subcommittee's chairman said the nanel originally planned to

review the VA's information accurity offerta later this way But the review was accelerated after the VA disclosed last month that a portable hard drive with information on up to 1.8 million veterans and doctors was reported missing from its medical center in VA Security, page 16

cool hesides

Virtualization and streaming of deskton applications can centralize management. improve security and reduce costs - and it's pretty

Oracle's Hyperion Deal Puts Users on Guard

Some fear loss of leverage, decline in service and longer upgrade cycles

Oracle Corp.'s purchase of business intelligence vendor Hyperion Solutions Corp. will likely benefit Oracle, but Hyperion customers could experience a decline in service and end up with less perotiat-

ing leverage, some users and analysts said Oracle last week agreed to buy the BI tool maker for \$3.3 billion in cash Bart Klein, vice president and manager of application development at UMB Financial

Corn in Kansas City Mo said Hyperion is the latest of the bank's best-of-breed vendors to he snapped up by Oracle. The bank, he said, also uses Siebel Systems Inc.'s CRM

software Stellent Inc's content management tools and Versatility Inc.'s call center products, all of which have been acquired by Oracle in

recent wars. "What is next?" Klein said. While [it's] not our intention to put all of our technology investments in the hands of a

Hyperion, page 40

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Do more



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_Mhoever came up with "add on app, add o server" fargot ta "add on ATM."

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Chinese banks are moving from antiquated processes to state-of-the-art technology — and it's happening at a scope and pace never seen before.

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MARIWARE: From next-gen CPU architectures to high-powered personal-area networks, we name the hottest trends in developing technology.

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Tech Talent in High Demand

CAMEERS: In a tight job market, the right mark of skills and industry expertise can translate into a long and fruitful IT career.

translate into a long and truttuil 11 career.
Columnist Jim Lanzalotto discusses how
the market is shaping up for 2007.

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Broadband Over Power-Line Is Ready to Explode acressment Plans a cell-phone-size adapter

into any electrical outlet in your house and you've got 3Mbit/sec. Internet service. Look out, AT&T and Time Warner, here comes the local power company.

Data-Storing Bacteria Could Last Thousands of Years storage: Scientists successfully store E-mc 1905" ou the DNA of living matter.

iPhone Happiness
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Columnist Jack Gold
says that both Cisco
and Apple will
benefit from their

Server Road Map: Beyond Quad-Core

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Dell Woes Continue As Sales, Profit Droo

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Judge Nixes Claim net Microsoft

A judge in San Diego federal court lete lest work dos one of several patent claims that Alcatel-Lucent SA has made against Microsoft Corp. The judge ruled that Microso did not infringe on a patent for ch-recognition technol as Alcatel-Lucent asserted. The ruling came a week after a jury red Microsoft to pay \$1.5 billion to Alcatel-Lucent for infring-

ing on other patents Sun Unveils New ersion of Java ES ropystems Inc. has

ased a new version of its a Enterprise System set of re. Java ES 5.0, the rst new release of the software ce October 2005, is aimed at ies looking to purchase vare at a gradual, pretable rate. Java ES is priced ng at \$100 per empl per year for a package that in-cludes Sun's applications, portal and Web servers.

AT DEADLINE IT Races Clock As Early Start of DST Approaches

Companies are still prepping their systems for Sunday's spring forward

TITH JUST days to un before this went's earlier-than nonel start of declinht, excise time, a last-minute scramble is un inside many IT depart. ments to finish evaluating and updating systems in order to avoid any problems when the

clocks are turned one hour ahead. Although the changes to DST became federal law in August 2005 it has only been during the past few months - or weeks, even - that many companies have begun in ear-

nest to prepare their systems for DST's new starting and ending dates. As a result, the situation remains unsettled. according to interviews with IT managers, consultants and

Forrester Research Inc. sealyst Ray Wang said clients are iammine the consulting firm's phone lines asking for advice. The early time change is turning out to be "a bigger deal than vendors and customers had expected." Wang said DST, which previously be-

can during the first weekend in April will take effect at 2 a.m. on March II this year. And the changeover issue won't just go away after that. The status of systems will have to be revisited again when DST ends on Nov. 4, one week later than it

previously did. Rudy Ebisch, assistant director of the infrastructure. group at a large maker of home and office products that he asked not be identified, said last week that his IT team is about 95% finished with a lone list of system checks on the company's nine major soft-

ware platforms, "Nothing has been a showstopper," he said. But one area where DST problems are still being msolved. Fhisch said, is in a reserestion system used to book meeting rooms. Reservations made before DST software patches were installed could conflict with ones made afterward, according to Ebisch. Reports are being run against the reservation system to try to find any conflicts so they can

be manually corrected. No Free Fix Dave Brockman, a product

manager at a hosted applications vendor in San Francisco. said his higgest DST problem has been the lack of a free fix from Microsoft Corp. for systems that are still running Windows 2000 or Windows 2000 Server, Brockman's company, which he asked not be named, still uses those ver sions of Windows on an unspecified number of machines

with the DST changes into Windows Vista "It seems silly that they're calling this a critical update for some operating systems. and not for all," Brockman said. His company has already undated its XP and Windows Server 2003 systems with the he's still looking at possible solutions for the Windows 2000 machines. M3 Sweatt, chief of staff at Microsoft's Windows core operating system division said the software vendor isn't providing a free DST fix for A - 100 - Jan 2004 products because they're no longer covered under its mainstream nuoport programs But Microsoft is

free natches, but

offering the hot fix to resolve the issue at a reduced fee. Smantt said For a one-time cost of \$4,000, users can get DST fixes for all Microsoft products

Brockman said he's annoved because Microsoft is still issupatches for Windows 2000 but currently listed under extended support, he said. Normally, as a bot fix that's available only the company's fee is \$40,000 as nort of a fee-based extended per fix for each product support program. In contrast.

Wane said that at a mini mum. Forresser is recommend ing that businesses affected by the time change notify custom ers before March II that DST issues are bring worked on but that problems could occur after the change takes effect

A common problem, Wang said is that patches from one vendor are causing code mismatches with other applications that then also have to be resolved a



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XP and Windows Server 2003.

and it built code for dealing

Consulting Firms Face Flurry of DST Help Requests

JULIEN COURSE, a manezino drector in the finencial services cies and inco consulting practice at BearingPoint according to Courbe. Fixing such inc., said that many clients of the problems has taken "much mor McLean, Vs.-based firm struggled on their own to floure out what to do time than anticipated," he said Ethan Simmons, co-founder of about the DST change before finally Boston-based IT services provider Net Technology Consultants asking for help in January.

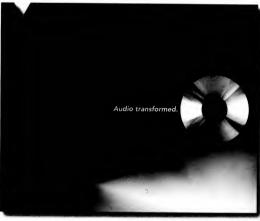
Once BearingPoint officials real-ized that they wouldn't be able to Inc., said DST help requests have been coming in from clients like do all the required patching work in time, they began prioritizing the flues and told cilents that they would "It's complete chaos," Sin

said. "Everyone's still sort of picking it up. We've been telling our custom help them complete the rest of the undates after March 11. Courbe said. ers about this for a while now, and It's only been about a week where Since many users have unaucations on their PCs. pairhop efforts have been come ing. We want to get this done.

a Circo Swetness Inc. tech conference in Sen Jose along with ives from about 25 other IT services firms, said the cel phones of attendees were ringing mady, with many callers seed help on the OST come pinned most of the blame for the lest-minute rush on IT vendors.

saying that many have only recen n releasing DST patch "Everyone's been ready late to the ame," Simmons said. "It should reve been better planned. This was known over a year ago, and it's

- TOOO R. WEISS



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Lenovo Recalls Sanyo Notebook Batteries

Lennus florum Ltd. in recolling about 208,000 notebook batte ies worldwide after receiving five complaints that they everheated after computers were dropped or hit The defect in the Same

Electric Co. nine-cell, extended life batteries caused minor eve irritation for one user while the no said the U.S. Con Product Safety Commission

Dell Woes Continue As Sales, Profit Drop Dell Inc. recorted significant de

nes in fourth-quarter sales and fits as the PC maker copes h an ongoing investigation of ion of CEO Kevin Rollins.



Judge Nives Claim ainst Microsoft

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ing on other patents. Sun Unveils New Version of Java ES

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IT Executives Rise To the Challenge

Crises and other difficult moments present leadership opportunities

BY TOOO R. WEISE

ARY'L LEMECHA'S
career-defining moment as an I't execuin February 700s on the day
to company, ChoiceVoint
lack on notify 16ch of their personal information might have
been obtained by
identify theree posing at operators of

After the discovery that the Alpharetta, CONF Ga-based data aggregator had erroneously sold credit and other identifying information to the thieves, internal security and privacy processes were turned upside down, said Lemecha, CIO and

senior vice president of altrace services. Since then, ChoicePoira has changed how it stores and handles personal information and has strengthened its credentialing procedures for individuals and businesses that with the substitute of the consultance of the consultance of the contact of the contact

sure it never occurs again.

"This experience has been tremendous for me," Lemecha wrote. "While I would not wish the last 24 months on any CIO, it has been life-changing, it caused not to push myself and my teams to levels I didn't think was made."

think were possible."

Lemecha is among the executives whose accomplishments will be recognized at Computerworld's eighth annual Premier 100 IT Leaders Conference in Palm Desert, Calif. this week He is also scheduled to take part in a panel discussion on defining moments in IT leadership. For Lemecha and other Premier 100 honorres, such moments, though challenging, are often what successful IT management careers are bulk upon.

areers are built upon.
John Fisher, formerly ClO at SmithBucklla Corp. In Chicago,
said his defining moment occurred when he and the company's
CEO agreed to change
the IT department
from an operation

ders into one that was expected to help drive revenue.

The IT function became a revenue producing organization, just like the other basiness areas. Fisher said. "One interesting impact was the way in which the IT staff members viewed their job. Rather

in which the IT staff members viewed their job. Rather than thinking of their job as responding to problems and being a cost center, they took great pride in finding innovative ways to make money."

Tough Decisions

Ironically, that change in attitude created a new challenge for Fisher, a 2006 Premier 100 honoree who is now executive vice president of strategic services at NET(net) Inc., a Holland, Mich-based firm that newarijates onfeware contracts

for companies.

Fisher said he had to explain to the IT managers who worked for him at SmithBuck-lin 'that sometimes their services needed to be 'loss leaders' for the greater good of the organization.' In order to seal deals with customers. "They thought this devalued their

services" he noted

David Wright, ClO at women's footwear wholesaler Cels

Enterprises Inc. in Los Angeles, said his career path took a sharp turn six years ago, when he was working as a consultant and project manager at an ERP vendor that he asked not

he was working as a consultant and project manager at an ERP wendor that he asked not be identified. Wright was sens to help Cels resolve a troubled ERP implementation. The problems, combined with poor support from the

ERP implementation.

The problems, combined with poor support from the software vendor's local office, were causing invoices and other documents to be generated incorrectly. Wright said.
Because of the widespread errors, he added Cels use being

"inundated" with chargebacks from retailers that added up to millions of dollars. Cels refused to

Cels refused to pay the ERP vendor for Wright's services until the new system was working properly. Wright said the vendor threatened to pull him off the job until Cels paid

job until Cels paid up — "something I made clear they could not possibly do until we fixed the major issues and re

do until we fixed the major issues and restored their revenue stream." He said he decided to resign "on the grounds that I don't believe the way to build a business is by directly harming

White I would not wish the last 24 months on any CIO. It has been life-changing

vour customeer Shortly thereafter. Wright met with senior managers at Cele and maren torrd that he sould fix the ERP system within eix months "It took some convincing," he noted. But Wright was ----the ERP exctom was "effectively stabilized" within the promised six

months, he said.
"In the six years
"I've been CIO here.
I've seen a complete turnaround," Wright said. "We
went from a company that was being crippled by a failed ERP implementation to one that is contemplating an IPC."



In January and February, Computerworld surveyed Pressier 900 honorous and other IT and business managers who registered to attend this week's Pressier 900 IT Leaders Conference. A total of 19

PLANS AND PRIORITIES

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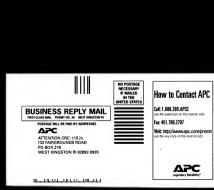


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as in the built-in anti logy in Windows Vista i a some users that they must er they install new device ers or run newly inst sations, Microsoft Corp. has a patch designed to fix w, which was found in its

era Protection Platform

ery. SPP is an un nes Genuine Ad racy took that are in Win-Corel Releases andPortent Rata

Corel Corp. has released a free ic heta of We ing, an updated versi rd processor that blends a s. According to Corel. the can run on Microsoft West

XP and Vista Outsourcer Rais

\$24M in Capital Achievo Corp., a San Ram es provider has rain \$24 million in capital from to and institutional inve ors. The company, which run ch of its operations from ties in Chisa, said that it will use the funds "to cover

rent obligations and future P to Buy NAS oftware Makes

lett-Packard Co, has a uire a storage soft my that it said will been ion in the enterprise Denris-attached str s. HP said that it has sed sum. Beaverton opie. Its NAS software car run on HP storage arrays and

C ON THE MARK

Language Limits Open Source's

... appeal compared with proprietary software. When Microsoft Corp. touted Vista in its worldwide release this year, it did so in 20 languages, says Mark Lancastcr. CEO of SDL International PLC, the Maidenhead. England, company that helped translate the operating

system's content, SDL also renders about 10 million words per month into dozens of languages for

Hewlett-Packard Co. Open-source projects. on the other hand, are almost exclusively developed, described and distributed globally in English. *Does that put [open source]

at a disadvantage against ble technology companies? Yes: says I ancester Orenventre projects that target consumers have an uphill battle sealost tech giants with big translation budgets, agrees Todd Williams, vice president of technology at Genuitee LLC. Flower Mound, Texas-based Genuitec is the creator of the open-source MvEclipse Enterprise Workbench for anplication developers, "People want thiogs in their own

language," he acknowledges.

However, Williams classifies

most programmers the world

30 languages. Cashless vending machines are an unstoppable trend. You won't need to root around in your packets for coins to buy a sods much longer, says Stephen Herbert, president of USA Technologies Inc. in

over as a "subculture"

that's "English-tolerant"

and contends that

"when they're pro-

gramming, they're

thinking io English."

Williams does admit

savine that in lanan.

tion is essential for

beyond the niches of pro-

HOT TECHNOLOGY TRENDS. NEW PRODUCT **NEWS AND INDUSTRY BUZZ BY MARK HALL**

Maluera Da Hie company's e-Port system is being used to retrofit thousands of cash-only units

to handle a variety of cashless payment options, such as near-field communication phones. RFID devices and, of course, credit cards, "It's the last major all-cash market," he says. He predicts that hotels will want cashless machines because they're less vulnerable to vandalism. And credit card companies want them because they represent a new market The technology also opens up opportonities in markets such as manufacturing says Herbert noting that spare parts could be stored

igyentory department Get more storage capacity without . . .

ction in more starage ity. A new appliance available today from Storewiz Inc. in San Jose promises un to fivefold compression of data written to dicke According to Tzahi Shahak, director of product management. the Storewiz STN-6000 sits between PCs and servers and compresses and uncom

software needs to be localized Lancaster presses files in real time and armes that localizarequires no client or server code. He says the device is smart enough to compress only data and not things such grammers and academia in as file attributes and permisnon-English-speaking counsions. And when an end user tries. But Williams points out looks at file descriptions on a that the Eclipse framework is server, he sees details of the a notable open-source excepuncompressed version, so he tion. It has been localized into won't panic when he finds that his PowerPoint marmum oras has been radically reduced in size. Orli Amir, Storewiz's vice president of marketing notes that the STN-6000 also reduces power consumption and cuts your data center

space requirements because It

enables you to meet data stor-

age demands with fewer disk

arrays than you once might

have needed. Storewiz also offers a utility called Reverse that can uncompress files on the server in case something catastrophic occurs Pricing starts at \$22,000.

Learn why consumers do what they do on your Web site. A new

analytic tool available this week from Teal eaf Technology Inc. in San Francisco

in vending machines pert to

may give you insight into why potential customers drop out in the middle of According to John Dawes. vice president

View "finds hidden obstacles" ' on your Web site that prevent visitors from completing a purchase or process. "We give you the customer experience for each session " he claims. Dawes says that with cxView, e-commerce magazers cao correlate changes in online business, such as shiftine trends in product orders with technical problems or business process issues. For example the software can show you io dollars what you're losing because of performance problems, application errors or options customers must navigate before making a purchase. TeaLeaf is also upgrading its CX data store software, which exView needs to non Test coff'CY Version 6 runs inside a browser, oo looser requiring Windows client software. Pricing

is application-specific but can

start as low as \$50,000.





Why can she see everyone's salary, but can't confirm her vendor's payment?

Keep information secure with Identity and Access Management (IAM) solutions from CA. Hold on Employees with access to information they should mere read? and no access to the information they need to do their jub? When exacts to the information they need to do their jub? When adding employees and changing their responsibilities. It's bound to happen. Unless you have Identity and Access Management solutions from CA. Our industry-leading LMM gives you enterprise wide security and control.

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licrosoft to Buy ealth Info Engine soft Corp. has agreed to uire Medstory Inc., which

ates a search engine for alth information. Terms of the deal were not disclosed. Microsoft said the acquired firm will anchor a "breader consumer with strategy" for the core istory will become part of the ently created health solutions um at Microsoft.

ares Unveils

ebreaker Database incres Corp. has released the tion of the Ingres 2006 databa and the rPath imple Linux, icebreaker is the first new just from Incres since it was a off from CA loc in 2005 software includes only the ets of rPath that are ed to run the database, nar tion and octantially

ing maintenance costs. Kaiser Foundation Names New CIO

Kaiser Foundation Health Plan pitals have appointed Philip Fasano CIO. Fasano replaces interim CIO Brace Turksta, who trok over the post after the resign New of CIO CRN Dodd in Nove nor Deald Just clave, after a Kaine ions related to the ut of a \$4 billion electronic

n from Epic Systems Corp. P Unveils Midsize

torage Systems ett-Packard Co. has ight out a disk-based back ry system designed for small and midsize by he HP StorageWorks D2D uso System can automat y save data from as many as four servers and has a total te of 75068 or 1.5TB

ng on the model. The 10 and 020120 models iced at \$1,989 and \$2,989

BRIEFS Ouiet Techies Can Be Groomed to Be Leaders

Experts debate what traits make for a good CIO

FOT ALL leadership qualities are ingrained at birth. You can learn some of them But it below if you want to lead and are willing to listen. What it takes to run an IT grown was the topic of a lively discussion here last month at a meeting of a changer of the Society for Information Man-

ancinent (SIM). Panelist and management consultant Bart Bolton said he isn't convinced that a person needs charisms to be an ef-Introverted technologists with the right qualities can be erocimed to lead. "I know a lot of introperts who have become

successful CIOs," said Bolton. A Mix of Attributes Descript IT business there so and what you're about," and

that leads to a sense of selfconfidence he said Effective IT leaders dray upon other qualities as well. including the ability to set and communicate a vision for the IT organization, a capacity to market and cell that sirion to IT staffers and business executives, "and the charisma to motivate," said Tom Petri hone co-founder and magaging partner at Transition Partners Co., a management

consultancy in Reston, Va., and a former CIO at Philip Morris USA Inc. and New York Life Insurance Co. Those types of leadership amplities said Pettibone are 'something that's in the internal DNA* of a person.

A good leader, Pettiboor added, inspires people, demonstrates success, shows the way and advances the careers

Still Battibone warmed that it's not always a good idea to tree to erroom someone who might be a skilled manager or technologist but doesn't necessarily want to become a leader. "To try to set them to fleadl is like a most canal " he said The SIM panel also debated whether it's best to tan the IT ranks for a CIO or bring in a

business executive for the job. The latter approach can be risky, said Ron Rose, CIO at Priceline.com Inc. in Norwalk. Conn. "For a lot of companies. the technology has to deliver and deliver quickly," he said. Time-to-market pressures how made the margin for technology-related errors

turned-CIOr "will have to become more technology savyy*

to keep page Rose said Bolton added that either approach can produce challenges for a company. If an IT veterao is tapped to become a CIO, he has to he able to talk oess terms, said Bolton, Also, business people who transition into CIOs run the risk of not fully understanding tech-

For his part. Pettibone believes that the ideal CIO candidate comes from the IT ranks. I used to loke with the general counsel at New York Life that if they wanted to make him the CIO, they should make me

the general counsel," said Pettibone

Regardless of a CIO's roots. Rose said, he "has to almost be a better business person than the business people because you have so much less time to figure out the challenges for each of those business silos." Rose also emphasized the importance of listening. Ten years ago, when Rose was chief technology officer at Standard & Poor's Retail Markets, an engineer told him about a discovery he had made with a then little-known oper ating system called Linux "He eaid 'You've not to check this thing out: it's amazing,' and

I'm thinking 'I ike I have time for this," "said Rose. But check it out he did - and S&P became one of the first financial services firms to adopt the open-source system. It reflects how some of the best ideas come from the bottom up," said Rose.

SIM Targets Shrinking IT Workforce in U.S

Program aims to get high school students interested in IT careers

---With a national IT labor shortdevelop a sense of who you are see likely to emerge over the next decade, the Society for

Information Management is extending its IT career programs to bigh school students Several demographic studies indicate that

labor shortages are possible. For example, AMR Research Inc. found that 76 million Americans will reach retirement age during the next 10 years. And SIM predicts that enrollment in college IT

courses is dropping by 40% annually. Meanwhile, the U.S. Depart-

ment of Commerce's Office of Technology estimates that about 2 5 million IT jobs will have been created in the U.S. between 2000 and 2010. The AEA estimates that the nur ber of 1T workers stood at 5.6 million at the end of 2005 To help address the anticipated IT labor shortfall, SIM plans this year to expand its college IT career programs to high school students

The organization ntends to reach out to high school students and guidance counselors by drawing upon a

program created by its Dallas chapter, said Leo Collins, SIM's vice president of advocacy and amunities of interest "By the time (students enter college], it's a little

late to bring this issue to bear." added SIM President lames Noble, "We have to catch people's decision-making process a little earlier."

The Chicago-based professional group for IT executives teamed up with Microsoft Corp. 18 months ago to launch a program called Future Potential in IT, sald Collins who is also CIO at Lions Gate Entertainment Corp. io Santa

Monica, Calif.

Since then local CIOs and Microsoft executives have made numerous presentations about IT career opportunities to groups of 200 to 400 students at several LLS, colleges and universities Collins said

The presentations are tarpered at both technical and nontechnical majors. "We're appealing to people who will be future IT leaders," including students who are developing business experience and soft skills, said Noble, who is also group vice president and CIO at Altria Group Inc.

in New York Some labor experts believe that the dire warnings of a mass baby boomer exodus are exaggerated, because some older workers are expected to

work after age 65. But people who keep working beyond retirement asse won't fully address the emerging labor gaps, said Noble. "As

in any profession, you're relying on refreshing the profession with new blood, people with innovative ideas and training in new technologies." he said.

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'Back-hacker' Says Sandia Tried To Keep Probe of Breach Quiet

Lost month a surs in New Mer. icu awarded Shaum Carpentes SJ. Emillion as port of a wrons ful termination lawsuit against Sandia National Laboratories where he had worked as a network intrasiondetection analyst Car. menter year fixed in early

2005 after he shared information about a network compromise with the FBI and the U.S. Army Sandia which is run by a subsidiary of Luckhood Martin Corp. Lauthored in-depth under a contract with the U.S. analyses of these intrusions Department of Energy, claimed

that Carpenter had inappropriately disclosed confidential information But Cornenter said he did to for not soned necessity masses after mine reversehacking techniques to find evi dence that the perpetrators of the May 2004 breach or Sandia belonged to a Chinese backing

vrusio called Litan Rain Cornenter worked at the U.S. Department of State's Cuber Throat Analysis Division antil fich 73 when he left to take a inh as a principal research analyst at NetWitness Carn a network security start-up in Herndon, Va. He discussed the encident at Sandia in an interview with Computerworld that your combusted via e-mail last month. Excerpts follow:

What's your reaction to the jury's verdict in your lawsait? It's almost a suprantee that Sandia will appeal and drag it out for years. They don't have any incentive to resolve the case. as the tax powers are footing the bill. We've indicated our willingness to negotiate over the course of the suit, but they expressed no desire to talk The one offer they made at a settlement conference ordered by the court was so nathetic

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ion at Sandia in the first place? As a network incression-

detection analyst. I regularly used similar back backing techniques to recover stolen Sandia password dence to assist in sectem and network compromise investigations We were able to better defend our networks as a direct result of the intelligence we gained

But what were you hoping to acsolish through this investiga-

tion? My objective started our with a nurneus similar to the other investigations I engaged in while at Sandia. The dif

that the soldier had a sount sound deeper than Limponned In late May of 2004, one of

nor investigations turned an a brose cache of stoles sensitive documents hidden on a server in South Kones. In addition to U.S. military information. there were bandreds of roses. of detailed whem ties and project information product Lockbood Mustan Proprietary trolled' that were associated with the Mars Reconnaissance Orbiter, Ironically, Sandia Corp. the private company that manages Sandia National

Lockberd Martin Is more than discourage than promoted my meeting with lmy supervisor), when I was told that "a was not my concern" Later Lturned lithe information) over to the U.S.

investigate how it was taken and where the path led.

You've claimed that you were eiven an concrtualty by Sandia to get the information you uncovered to the proper authorities at the other organizations. Why was that? I attempted several times to find a Sandia channel to get the information to the organi estions that were impacted. At

the first meeting with my sunervisor and the Sandia information security manager, Ithe supervisorl stated, "We don't care about any of this. We noly care about Sandia computers." After Linsisted that there must be a way to throw the information "over the fence" to Sandia's counterintellinence organization or other federal and military authorities, he said that I was forbidden from

doing this and that it "wasn't

Why do you think Sandia acted the way it did? This was the first time that my activities ancovered evidence that

entities outside Sandia were compromised and (that) data was being stolen. They weren't willing to contact the proper authorities because outside law enforcement would cer tainly mayire about how the data was obtained - bringing unwelcome scrutiny upon San dia. It was a case of putting the interests of the corporation war those of the country I

Blind Workers File Suit Against Oracle, Texas Say inaccessibility of apps violates law the boman resources applica-

---The National Federation of the

Blind and three state employces have filed a lawsuit against Oracle Corp. and the state of Texas seeking to ensure that all applications used by the state government are accessible to blind state workers. The said, filed last month in Travis County District Court in Austin, contends that the

workers' inability to access the applications is preventing them from adequately doing their jobs. It specifically cited

tions in the Oracle PeopleSoft software used by the Texas Health and Human Services Commission (HHSC) and the Texas Workforce Commission. The lawsuit seeks to force Oracle to make its software accessible and to force the state

to stop parchasing any inaccesuble software chide the directors of the state amone ion the state's action chief technology officer, Brian Rawson; and Oracle.

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One of the plaintiffs, Edwin Kunz, the director of a reba-

bilitation center for the blind within the HHSC's Department of Assisting and Rehabilitative Services, contended that the lack of access to the human resources applications regularly causes privacy problems for employees.

"Because I must have sighted assistance for all of these personnel functions, both my privacy and the privacy of my employees are mutipely violated" he said in a statement

"I've complained about the problems with the software. but nothing has been done to fix them." Kunz said. Tommy Craig, president of the Texas chapter of the Na-

tional Federation of the Blind. said that Texas law requires that "all software and computer systems purchased by the state he accessible to blind

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people who report to them and that blind amployees can't access their own records without posistance, which mises nrivacy and confidentiality issues Crain surrousted that various remedies are available to make the applications accessible For example, a Braille-enabled device could be attached to a PCN serial port, or apolications could be voice-enabled, he said. "It doesn't take a lot to do it " Craig said.

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Rence Mauzy, the general counsel for the Texas Department of Information Resources (DIR), said the state plans to deliver an initial response to the lawsuit today. She said the DIR, the state's IT operation, is already working with Oracle and the Texas commissions to fix the problems. Both the MUSC and the Workforce Commission de-

clined to comment on the said citime pending litigation. An Oracle spokeswoman also declined to comment.



'Back-hacker' Says Sandia Tried To Keep Probe of Breach Quiet

Last month, a jury in New Mexico awarded Shawn Carpenter \$4.3 million as part of a wrong ful termination lowsuit avainst Sandia National Laboratories where he had worked as a merupak intrusion detection analyst. Carpenter was fixed in early

2005 after he shared information about o network compromise with the FBI and the U.S. Army Sandia which is run by a subsidiary of Lockheed Martin Corp. under a contract with the U.S. analyses of these intrasions.

Department of Energy, claimed that Carpenter had inappropriarely disclosed confidential information, But Carpenter said he did so for national security reasons ofter using reverse. hacking techniques to find evidence that the perpetrators of the May 2004 breach ot Sandia belonged to a Chinese backing group called Titan Rain

Carpenter worked of the U.S. Department of State's Cuber Throat Anchous Divinion until Feb. 23, when he left to take a job as a principal research analyst at NetWitness Corp. a network security start-up in Herndon, Va. He discussed the incident of Sandia in an interview with Computerworld that was conducted via e-mail last

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Blind Workers File Suit Against Oracle, Texas Say inaccessibility of apps violates law

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The suit filed last month in Travis County District Court in Austin, contends that the workers' inability to access the applications is preventing them from adequately doing their jobs. It specifically cited

the human resources applications in the Oracle PronleSoft software used by the Texas Health and Human Services Commission (HHSC) and the Texas Workforce Commission. The lawsuit seeks to force Oracle to make its software ac-

cessible and to force the state to stop purchasing any inaccessible software. Defendants in the suit in clude the directors of the state agencies; the state's acting chief technology officer. Brian Rawson; and Oracle.

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Feds Hope to Boost Businesses' Role in Slowing Cyberattacks

Private sector seeks earlier warnings more intelligence on potential strikes

S REPORTS of cybersecurity incidents grow, U.S. Department of Homeland Security officials hope a new initiative will improve their ability to work on the problem face to face with private-sector

The DHS plans to collocate private-sector employees from the communications and IT industries with covernment workers at the U.S. Computer Emergency Readiness Team (US-CERT) facility bere, said secretary of cybersecurity and telecomeronications at the DMS. The teams will work jointly on improving US-CERT's information bub for eybersecurity. Garcia said. The arency didn't specify a starting date for the program but said it will begin soon. US-CERT is a four-year-old DHS-run effort involving the public and private sectors to protect the nation's Internet

infrastructure "It's through this collection that we are gotne to build a strong trust relationship an information-sharing relation-

ship," said Garcia. Such collaborative programs will improve the monitoring of suspicious Internet activity "so we will be able to better analyze finl real time what is happening and take stens to mitigate it and have a syn-

chronized and instantaneous response capability," be said. Garcia outlined the efforts to improve cooperation between the public and private postory at the Armed Source Communications and Electronics Association's Home land Security Conference held

Garcia and other speakers at the conference said that the need to improve such coopera-"What we are seeing among capabilities, in terms of the threats that they impose upon our networks " Carein mid

tion as well as the imperative to improve IT security overall. is becoming more urgent daily. sophistication in terms of their In all of 2006, 23,000 incidents - 25% of them in the

as an attempt to gain unauthorized access into a system.

a denial of service or any other kind of Internet disruption. Nineteen thousand incidents were reported in the first countries of the federal fiscal war, which began Oct 1 said Jerry Dixon, who heads the

DHS's National Cyber Security The number of incidents is growing. Dixon said, but many firms and government entities still aren't prepared to deal with threats because they don't know what they have in

their computing environments. "How can you manage risk if security. The Washington-

on what your environment looks like?" asked Dixon, who noted that he has made on eite visits to large private comnamics as well as to state and federal supreing

Security Gans

Karl Brondell, a strategic consultant at State Form Insurance noted that industry and govcrament "really aren't propared today to address that signifieant attack that will come to us. potentially, through cyber." He cited a Business Boundtable report that identified gaps in private-sector cyberbased Business Roundtable is an association of CEOs from large companies

Although Brondell said than efforts to improve exheraceurity have been communicative cessful he noted that the U.S. flacks an adequate and truly

comprehensive system of early warning of impending attacks." Brondell said that privatesector businesses could improve security with better access to "chatter" heard by

government security agencies about notential attacks As US-CERT gains visibility and effectiveness, officials hone to expand its member. ship to more business sectors. Garcia said.

"We will then bave a truly national capability across critical infrastructures sharing information and responding to incidents as they are happen ing" he said "That is one of the key priorities," *

private ancies - warm persons ed to US-CERT. According to Continued from page 1 **VA Security**

Birmingham, Ala, on lan. 22. Gregory Wilsbusen, director of information security issues at the U.S. Government Accountability Office, said at the hearing that the VA has taken several "important steps" to improve its IT security practices. That includes an ongoing centralization of security functions and personnel under the CIO's office and the establishment of "a data security corrective plant to serve as a

guideline for some of the security improvements he said But many of those changes have yet to be fully implemented, Wilshusen added. For example, policies for assessing risks and implementing enterprise patch management capabilities haven't been developed. Nor does the VA have a plan for proactively mitigating known vulnerabilities across

all of its systems, be said. In addition, of the 24 agen cies covered under the Federal Information Security Management Act, the VA is the only one that didn't submit a report for 2006 on its compli-

ent and security. GORDON MANSFIELD. WA DEPUTY SECRETARY

ance with FISMA to the White-House Office of Management

and Budget, Wilshusen said. **Need for Accountability**

Maureen Revan, counselor to the VA's inspector general. said at the hearing that there now is a greater awareness of the need for change within the agency. But there is still a lack of effective internal controls

and accountability, she added An encoine audit of the VA's FISMA compliance has shown that none of the 17 security recommendations

made in previous reports has been implemented thus far. Regan said. She also said that the inspector general's office expects to cite "several new bigh-risk areas," including remore access and the ability of

nonemployees to gain access to consisting data Although 10 months have

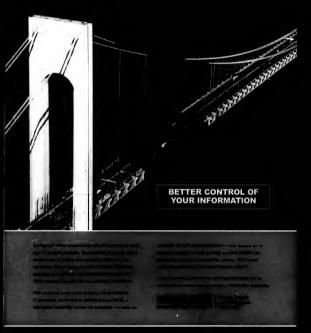
elapsed since the lapton was stolen from the home of a VA employee, the agency has yet to determine how many of its employees and contractors are using personally owned systems to access VA networks and data said Regan

The agency also doesn't have any way of knowing what data is being downloaded and stored on such devices. she said in addition much of the agency's sensitive data remains unencrypted, as do

many e-mail transmissions. Mansfield pointed to the ongoing centralization of the VA's IT organization and the establishment of a security operations center as examples of the changes the agency is making. He also noted that at an off-site meeting of senior managers on Feb. 21. VA Secretary R. James Nicholson reiterated his order that all supervisors take responsibility for protecting information. But progress at the VA has been slow because of the enormous scope of the work involved. Mansfield said. "We still have out there a largely decentralized system," he said. It is nonstandardized. So

there are no simple fixes. Robert Howard, the VA's assistant secretary for information and technology, said the agency is on track to complete the centralization of all IT opgrations by July 2008. All software development programs will be shifted to the central IT unit by the start of next month according to Howard.

Meanwhile, the search is on again to find a chief information security officer, a position that has been vacant since the VA's former CISO resigned last June. Mansfield said the hiring process has been delayed because a candidate who had been chosen for the lob decided to accept another offer at



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EC Threatens Germany With Action Over Law

> BT to Open £14M London Data Center

Effort to Sell Bankrupt BenQ Mobile Fails

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EC Unit to Study Data Center Energy Use

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Lempiral by Mike Backett

Briefly Noted

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has made an offer to acquire Southampton. England-based Tandberg Television. ASA in coder to beel up its expertise on internet-based IV technology. Exissson offered 8 B billion Sweedsh known (S.1.4 bellion U.S.) in cash for Tandberg topping an earlier SI.2 billion (U.S.) but by Arms Group Inc. in Swamene. Qu. Tandberg selfs video encoding and compression equirment.

■ IOHN BLAU IDS NEWS SERVICE

late week udded several mer features to the Cheese Deeper on search engine. Georgie engand its basiness in Cheese where the correspons on man search engine. Georgie onem, is sometimes solve or unavailable. The new features include the ability to search Chieses who search with the control of the control of

About half of the work on 's recently amounted "teraflep research chip "was done in India, according to Yasantha Erresputta, engneering manager at the company's india Research Center in Bangaleee.

cording to Vasantha Erraguntia, engenering manager at the company's India Research Center in Bangalere. Erraguntia did the design to am manager Bangalere that worked on the logic, circuit and physical design of the chip. The rest of the work was done mintel's Oregon research labo. JOHN BRIESTO DIO NEWS SERVICE.

The ... a think tank in Birmingham, England, spends last week to analyze how open-source software can be used in government and the private sector. The center will actly issues around open source, such as the use of standards and prourement guidelines, asid Ed Downs at the National Company Centre in Manchester, England.

*** REMYMINES, ODE WIS STRUCE**





An International

EC Threatens Germany With Action Over Law

week threatened the German government with legal action unless it scraps a new law that protects Deutsche Telekom AG from competition in the broadband Internet access market.

The commission sent a letter of formal notice to the German government after issuing repeated warnings not to adopt the legislation. The letter gives Germany 15 days to reply before the case is sent to the European Court of Justice in Luxembours.

"I regret that Germany has chosens to ignore the commission's concerns about this new telecom law despite several clear warnings from the compassion," said Vivianc Reding, European Union commissioner for information society and media, in a statement. Germany has areued that Bonn-

Germany has argued that boombased Deutsche Telekom should be granted a "regulatory holiday" because of the massive inverstments it has made in its broadband infrastructure. Reding argued that such breaks are "an attempt to stifle competition in a crucial sector of the economy and in velation of the EU telecom rules in

place since 2002."
The commission is targeting amendments in the German law that effectively exempt Deutsche Telekom's fast internet access network from competition. The amendment was requested by the company, which is still partly owned by the German government.

BARLH WILLES THAT SERVES FERRES.

Effort to Sell Bankrupt BenO Mobile Fails

ATTEMPTS TO find an investor for bunkrupt German mobile phone melber bench growth and the second sec

have to acknowledge that the market has decided against BenQ Mobile." Munich-based Siemens AG sold its money-losing mobile phone manufacturing business to Taoyuan, Taiwanbased BenQ Corp. in 2005. In August 2006, the new owner announced blans.

to stop investing in the operation.

After 'intensive inquires and market analysis,' the last potential buyer withdrew its interest in buying the company, exknowledging that a profitable continuation of BenQ Mobile's handset business was 'not realistis,' Prager said. He declined to identify the potential buyers. Since October, Prager has held talks with more than 100 potential buyers and entered into necessitations with 80.

In the coming weeks, the insolvency administrator plans an auction to sell BenQ Mobile's assets.

BT to Open £14M London Data Center

BRITISH TELECOM giant BT
Group PLC late last month disclosed plans to spend £14 miltion £27 million U.S.) on a new data
center in southern London. The center is aimed at helping the company
strengthen its hosting and manage-

ment services.

Work on the 930-square-meter facility, which will have biometric security features, should be completed by September, the commany said.

BT is looking to grow its data services business by 20% annually, with an emphasis on corporate, public-sector and financial services customers. Rajiv Abeysinghe. BT's data center transformation manager, noted that many BT customers are asking the company to architect and host applications within

OLOBAL FAGY

Abeysinghe also noted that BT is looking at potential renewable en-

Total value of experts of IT products, from PCs to networking sear, from China in 2006, up 35,7% from 2005

ergy solutions for its data centers as it seeks to cut utility costs. BT is asking vendors to make products with stricter limits on temperature, humidity and air quality, which could allow for more utility savings. Abeysinghe said.

B JEREWY KIRK, IDG NEWS SERVICE

EC Unit to Study Data Center Energy Use

A EUROPE AN COMMISSION group this week will debate whether to create a voluntary code of conduct on energy efficiency for data center operators. The EC said that the renewable energies unit of its joint Research Center will discuss the kide.

during a meeting in London.

Antonia Mochan, spokeswoman for the EC unit, said that any code of conduct would be voluntary. Organizations that adopted it would nonetheless agree to abide by certain principles or standards, she said.

stabilizards, see said. The commission has made few regulations about computer energy consumption, said Kevin Fisher, Intel Corp.'s standards and regulations majer for Europe, the Middle Beat and Africa. Part of the problem is a lack of metrics for establishing efficient server power consumption, although several efforts are under you be said.

Environmental agreements such as the Kyoto Protocol, which placed limits on countries' greenhouse gas emissions, are driving government interest in reducing energy consumption, according to Fisher. At the same time, large corporations are looking to cut utility costs.

JEFEMY ORIS IN STANS, SERVICE

CSC Awarded \$190M Australian Services Job

ATER CORP. in Western Australia late last month signed a \$190 million Australian (\$150 million U.S.) IT services contract

with Computer Sciences Corp.
El Segundo, Calif-based CSC has
been working with Leoderville-based
Water Corp., which provides water and
wastewater services to cities and towns
spread over 2.5 million square kilometers in Western Australia.

Under the new agreement, CSC will be responsible for the ongoing support and maintenance of Water Corp.'s existing applications and for the development and implementation of new vertors.

The pact also calls for CSC to provide project, program and demand management capabilities, which will result in faster and lower-cost delivery of systems, the water company said. — SAMORA RISSI

COMPUTERWORLD AUSTRALIA

Compiled by Mike Bucken.

Briefly Noted

Japan and Renais plan to list their histograms and relation antiversity sit is a new miderus filter optic cable connecting latitity on Heidalde. The necessarily site of the property of the p

I.M Ericsson Tulophore Co. has made an offer to acquire Southampton. England-based Tumblery Tulovision 455 At order to best on its expertise in Material South of Yackwology, Ericsson offered 6.8 billion Swedish Irwent (21.4 billion 12.5) in cash lyst Farefluery topping an earlier \$1.2 billion (U.S.). hid by Arris Group Inc. in Suremon, Qu. Tandforg solls video emociling and compression egolpssont.

compression equipment.

JOHN BLAU, IDS NEWS SERVICE

Goodle Inc. last week added several

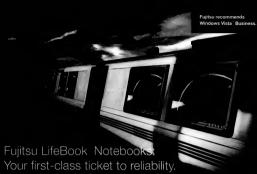
new features to the Chieses Google. on search engine, Google, on was teached in our y 2000 is help Google expand its business to Chiese, where the corporary's main exerch engine, Google, com, is sometimes clow or averablable. This new features look of averablable. This new features look of the company of the company who allow survey Payde, a Romanization system for Chieses characters. In Stability I SHAM ABM CENTER STABILITY SHAM ABM CENTER IN STABILITY SHAM SHAM CENTER IN STABILITY SHAM ABM CENTER IN STABILITY SHAM SHAM CENTER IN STABILITY SHAM SHAM CENTER IN STABILITY SHAM SHAM C

SCHWANKERT IDS NEWS SERVICE

About half of the work on Intel Corp.'s recently amonomed "incuface research chip" was done in India, seconding to Vasantha Erraguntia, orphonering manager at the company's India Research Conter in Bengalore. Erraguntia led the dosign team in Bengalore that worked on the logic, streat mad physical design of the chip. The read of the work was done

III JOHN RIBEINO, DE NEWS SERVICE
The Mational Open Centre, a thick
tank in Bitmingham, England, opens
last work to analyze how opensures self-ware can be used in gorermone and the private acute. The center will study leases arread open naures, such on the use of standards and of concurrence establishes, and Es

and procurement guidelines, said E Downs at the National Computing Centre in Manchoster, England. II JEREMY KIRK, IDB NEWS SERVICE



The Fujitsu family of notebooks with Intel® processors takes reliability and durability farther than ever before

Pelicité l'éjalu Lilébock notécobes are the engres that dive your productivity. The Fujisu Lilébock intrily ranges from utiliarity nomes from designer productives that disease pr

MULTIPLE LEVELS OF SECURITY keep your data safe with embodied TPM, integrated fingerprint sensor, Fujisu Security Application Panel, and more MULTIPLE CONNECTIVITY OPTIONS—motiving Wi-Fi[®].

Ethernet, and modern—simplify collaboration and
communication away from the office.





HE PASSIBILITIES ARE INFINITE



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DON TENNANT

Being American

T'S BEEN FIVE WEEKS since we at Computerworld wrote about Kiva, an organization in San Francisco that has set up a Web site to enable anyone in the world with \$25 to make a loan to a fledgling entrepreneur in a developing country. In my editorial that week, I wrote about how uplifted we in the newsroom were by our cover story on Kiya, and I mentioned how gratified I was to have been able to take time out from writing the editorial to send a loan to a woman in Afghanistan who was honing to raise \$300 to sell beans and peas on the street.

The first online comment we received in response to that story was troubling. After I read it, 1 asked our features editor. Kathleen Melymuka, the driving force behind the story, if she'd seen it. "I did" she replied "I didn't want to brine it to anyone's attention because it made me sick." Edited for clarity and

brovity the reader's comment went like this: *First, I am disillusioned with any organization that does not (contain) its afforts within the [18 natural horders. The time [has come when] giving to or assisting anyone outside the U.S. is a traitorous disservice. I say to hell with the rest of the world. and return to making this country infallible, the most protected, the most affluent, the most educated, the most powerful, and let the others get off their cans and grow up. If they don't know how by now, they are not worth our consideration. Do any of you have a good excuse for beloing those who hate and kill us, rip us off

through operations like Kiva? Come home to America and let the drees fend for themselves." It was, to be sure, a sickening diatribe. But I'm recounting it here for the simple reason that the outpouring of support for Kiva that it elicited from other readers was even more uplifting than the original story itself.

Many people in the U.S. are grateful for the philanthropic opportunity that this Web site provides," one of them wrote, "Many of my friends are disillusioned by those within U.S. bonders who take advantage of welfare programs without any real desire to change their condition while others in these foreign countrice are hard-working

brilliant entrepreneurs who would have already succeeded had there been the infrastructure in place to lend them these paltry sums of mon-

ist, nationalistic, 'one side of the pond' mentality - is why we are in the mess we are in." "The primary thing that has built this wonderful country is opportunity and self-reliance," wrote a former U.S. Army officer who so far has made 80 loans through Kiva. "That's exactly the sort of ideal that Kiya is supporting in poor countries." "It's just neighbors helping neighbors, albeit across a few borders," he added "What could be more American than ther?"

Nothing, as far as I'm concerned. By the way. I took time out from writing this editorial to make another \$25 loan, this time to Regina Njeri, a woman in Kenya who needs \$150 to huy a dairy cow. Let's just say I don't feel like a traitor.

"What happened to the Bible

helt? Did it per rwisted too tight

and wrapped around our hearts

and couls?" another reader asked

*lust like an ungrateful child who

stands on the labor of the parent

and takes personal credit for the

citizen of the world is just as toxic.

Pollution of the soul - that separat-

comfort he/she lives in, an ungrateful



IOHN D. HALAMKA

Time for a Digital Spring Cleaning

TV COLUMN "Storage Is the Fifth Utility" [fuly 18, 2005] declared that all IT users expect heat, power, light, network handwidth and storage to be ubiquitously available utilities. Today, I'm back to share a lesson learned. The demand for any

from service is infinite Since I wrote that column, demand for storage has doubled. I now have more than 100TB of spinning storage. What can I do to manage this insa-

tiable demand? The first thing to note is that 80% of our storage is consumed by 20% of our users. Should I bother to so after the HOMB users when I have a few dozen SOOGR users? We've identified

these truly large consumers and considered low-cost alternatives for them. I am a strong believer in centralized storage to protect the integrity of mission.

critical corporate data - anything that must be enforceded under the Health Insurance Portability and Accountability Act, that is required to be stored under the Sarbanes-Oxley Act or that could have devastating conseassences in a data spill

like the one suffered by TIX. But it may be prodent to leave the massive amounts of data that belong to some users on lo-

cal storage systems. For example, if a researcher penerstes a 100GB image of a microscope slide and notes that it isn't mission-critical, doesn't need to be highly available and is unlikely to be retrieved more than once in the next few years, should I keep that image on spinning storage or near-line archival media? Maybe offline tape,

magneto-optical disk or a FireWire drive from CompUSA is the most cost-effective approach for this type of user. At \$20,000 per terabyte a year for enterprise-class storage information tide-coole management and backup. I can't afford to offer infinite free centralized storage to most the demands of high-volume users who rarely access the stored data

Certainly, we'd make a lot of headway by tarretine that 20% who are high-volume users, but reducing the storage demands of our 20,000 lowvolume users would also rean a few tershutes. Here I can lead by example I recently cleaned up my own digital universe and reduced my entire data storme to 250MB of current doors.

ments and an archival DVD of media. Who needs that PowerPoint from 1990 or that budget from five years ago? A cursory prview of the file contents

of low-volume users reveals quite a lot of 7-megapixel family photos, vacation MPEGs and MP3 collections. Our first sten is a poweram of adjustion, warnines and human resources review Last week I sent an e-mail to all us.

ers explaining the cost of archiving family photos for a decade on central storage systems and reminding them that corporate IT use policies prohibit personal MP3 storage

We're installing new monitoring software over the next month to identify the most significant abusers of this policy We'll share the firs of folks storing their personal media on controlised storage with the senior vice president of human resources and the abusers' managers so they can reinforce where tion and warnings. I don't want IT to be the content police, but public disclosure of violators' MP3 collections may

he miss affection We could also use market forces

MIT used to provide free warehouse space for the junk that accumulated in its labs. As real estate values in Cambridge, Mass., skyrocketed, the cost became prohibitive, so MTT imposed a very small fee per square foot of warehouse storage. Suddenly, a lot of the junk went into the Dumoster Spinning archival stratogies even Serial ATA drives, are not cheap when

they become the digital equivalent of the MIT warehoose, Following MIT's example, we could start to charge for storage, providing the first \$00GB per department at no cost, for example, and then charging \$1 ner wear for exers nighted thereafter Another idea would be to offer a bounty, not inclusers \$1,000 for each tershyte they delete Casco recently did this and recovered a massive amount of storage So, do your CIO a favor - do a little digital spring cleaning. The IT budget depends on it 1

WANT OUR OPINION? More columneds and links to archives of previous columns are on our Web sile

Intravenous News

G REAT ARTICLE! Horwarded it Most Powerful Tool," Computerworld.com. Feb. 11 to my software engineering manager. The trouble s, he doesn't have time to read it. in addition to the diodal and post services of the article, does it come in the form of an IV that I can sab in his arm?

I non Michael Senior software employer Mostor Ohio

No Time for Surfing HE HEXT thins you know we'll THE NEXT comp your compact the talking about what impact a cornet bitting the Earth will have on the internet I"Web Line Scrike in Paraternia May Maine Televando lough," News, Feb. 121, All the emsday predictions about what will happen in the fly pandemic are amazing. The reality is that if that many people are dying, people will have other things to warry about

than petting on the laternet Rob Sibono Enterprise architect Adelaide, South Australia

Deciding Who Will Get the Big Bucks HE ENTIRE discussion in the

article "Caught in the IT Pay Squeeze" [Management, Feb. 5] condenses down to one question: Are we mature, intelligent, sentient beings, or are we just spoiled childeep?" If one nection has more skills than his neary than why should be not receive compensation reflection that? But how do we define that fine line of capability? Well, if we can't determine that, then we should all

on hark to kindensarten

Paul M. Mrozinsky Electrical manufacturing process craineer, Montgomery, Ala.

neueroniesky/invoriduct att act Why Wait for Patch?

EVERY ARTICLE I have seen on the Excel and Word valuerabilities talks about references things like waiting for a Microsoft seich or not coening documents from untrusted sources (even though yesterday's tourted course might become today's intection) but nothing about mate solutions ("Excel Vulner able to New Attack," Computerworks com Feb 51 These potente consum

the document in a sandbox where it can't do any demone to the system. using another spreadsheet or word rocessing program, using Word Pad (after all it is not on the list of vulnerable programs - or is this a Microsoft oversight?) and opening the document with Notepad to at least get the gist of the document and Mirks Bargkok, Thailand

Passé Passwords R HOHT ON, Frank Hayes! Pass-

words are melfective ["Passwords - Why?" Frankly Speaking. Feb. 51 because they are required unce municiple on the leternet fourt walk around your workplace and look at the culturies. Many see conered with volice stickies, and the used majority don't contain meeting reminders: they contain passwords. Another advantage to dongles. is that when we lose a donnle we know it's missing, when a password is lost or nucloimed, we usually don't know it's gone until it's too late

Lou Washington Senior business manager Cincom Systems Inc., Cincinnati, hugebington/ii/decom com

Step 1: Acknowledge The Spam Problem

H THE article "A Clean State for the internet" [Strategies & Tactics, Feb. 121 Robert Kabo a commentor of TCP/IP and CEO of the Corporation for National Research Instattves. says that what is deemed to be snam or even pernography can very depending on who is viewing it. Kahn may be right about pornography, but spam is iron-clad. It is the same thing many times " If it's e-mail if all of the addressees did not request it, and if it's sent to more than one addressee. it's soom.

Ed say Kahn and people like him are the reason we don't have a technological solution to the son mobilem Protention that you don't lunger what the problem is makes it easy to claim it can't be solved. Rich Tletjens IT technician and training

coordinator, Tualatin, Ore.

Let's Stop Crabbing **About Success**

WHILE THE stone cited in the article "Microsoft Settles Emberrassion Actions! Suit in load [Computerworld.com, Feb. 14] are sions of an overzeolous grownizalion. I'd hardly call them embarrassind except to a business recorbyte still cleaked in the billiary of the play and the illusion that the best product wers. I fell off that bandwagen back when Betamay lated. The starten omission in the article was how

much the civic minded lowvers were nottion from the class-action percentage of the take these sharks get from their nursance suits. Hard to believe that \$330 million is a nur sance out but to the likes of Microunit it appears to be only a researce. Why is if that Americans always. and for the underston and helitife success? Must be the crab swi-

Solutions architect, Powers, Calif.

Evolution of Tech Is Accelerating GARTHER IS a reputable

tion to informatics intelligence and metrics. I am not debating its survey L'Bartner CO Facheson Besiness Shill Shortages Constrain IT Growth," Computerworld.com. Feb. 151, but I can describe a phenomenon that will loggie most brick end mortar edifices. I have witnessed the availation of

perporate computing over 40 years. But and automobiling assessables. But not a parabolic behavior adher it is fractal and stochastically mountain It's like what Mario Andretti said "If thinks seem under control, you're just not doing fast enough." Techpolony is not merely moving but accelerating, IT personnel are having a hard time catching up with updates. frees and new nenducts. Personnal don't have the time to learn the analonly of their composes. I provide that provide aders will become their own CIOs. It is going to be a successful formula for on-demand profstability. The fact that such polices had taken over in most supposed of compages is an indication that we are in a full technological resonance fit is not a paradiom shift anymore). We are in a technological brand with no rules. Companies have to stay lears in order to minimize their own internal entropy Remercher, we may not be interested in chaos, but chances interested in us. Recky Termanini, Ph.D. Vice president of technology.

Merit International Security Consultants, Stamford, Cons. rtermanini@meritsecurity.net

COMPUTERWORLD welcomes comments from its readers. Letters will he action for housely and classly. They should be addressed to Jame Eckle. letters editor Computerworks PO Box 9171 1 Speen Street Framingham Macs. 01701. Fax: (508) 879-4843. E-mail: letters@computerworld.com. Include an address and phone number for immediate vertication.

STRATEGIES ACTICS

Inside

Banking on IT in China, Chinese banks are moving from antiquated processes to state-of-tho-art to-buolous - and it's happening at a scope and pace

never seen before PAGE 26 Career Watch DAGE 20

OulckStudy: MFMS PAGE 36

PAGE 32 Security Manager's Journal

Seinler Paul Clen PAGE 34 ing green text. Then in the 1980s came minicomputers and PCs, connected

By Gary Anthes ARSONS CORP. a \$3 billion

construction and engineering ny based in Pasadena. if, once had hundreds of at clients on the desktops of its engineers. That spelled nothing but trouble for the IT staff. "We had cadres of IT folks who would

go around with CDs, and they'd push the user aside and say, 'Hey, go have a smoke while I download this application," says ClO foe Visconti That was only the beginning. "If it was something like AutoCAD, it could take an hour to load, then the IT guy would have to configure it." he recalls. "Then beld set a call a few minutes later saving. 'Hey, this is not running. Help me. Then, as soon as there was a

patch or new release, someone would so through all the desktons again." Keeping track of which users had which versions of an application, who had various patches and so on was a

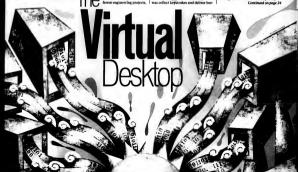
nightmare, Visconti says. And if a user needed multiple versions of software for different engineering projects. the versions had to be installed and uninstalled as his needs changed That was the lay of the land in most IT shops as the century turned, and it's the way things still are today at many companies. But new models of computing are taking hold as IT looks to reduce the cost and complexity of managing

PCs. Among these are the virtualization and streaming of desktop applications. with the enal of movine the management of desktops to the data center. where it can be done more easily more securely and often more cheaply The virtualization and streamine of applications evolved from a long beritage. In the 1970s, dumb terminals connected to mainframes. The big deskton boxes were aptly named; all they did

called client/server computing. These desktop machines were far from dumb: they were called "fat clients" because they were fully loaded with processors memory, disk drives, I/O devices, operating systems and application software. In the 1990s, things out a bit a complicated. IT managers disc that still more tiers could bring better performance, flexibility and scalability. Applications could be bro ken into presentation, business lovid data access and data storage layers. each residing where it worked best

in a paradism-busting arrangement

At the same time, there was a back lash against the cost and complexity Continued on noev 24





Inside

Banking on IT in China. Chinese banks are moving from antiquated processes to state-of-the-art technology — and

it's happening at a scope and pace never seen before. PAGE 26

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IRM

_INFRASTRUCTURE LOG

_DAY 27: These compliance regulations are killing us! Audits. Inconsistencies. Pracesses. Time. Money. I feel like I'm being chased by regulatars.

.Oh, mait. I am being chased by regulators. Run!!!!!

.DAY 28: I've got it: IBM Tivol! middlewore. It automates
system administration to standardize compliance
policies. It centralizes processes to minimize the
headaches of new and ever-changing regulations.
And it helps pinpoint security issues before they
become problems and maintains business interrity.

_Gil is burned we had to ditch the high-carb diet.



Continued from page 27 of lat clients, and some H managers turned to 'thin clients' and 'forwork computers.' Issseally dumb terminals with a grade-school education. But these, this concernments from

with a grade-whood coloration. But these slays operating system appraiches new applications, big fives and security praches have escalated on frequency. Evers are more likely to mortall their own applications, and second to mostall their own applications, and second chemical that I I motall special software to their substantial portrains of I I staff strict from declaring to desktop, keeping by a running property.

Enters urmalization—which isolates the application from the operating system and other applications—and streaming, which delivers the application to the user.

By moving the management of desktogs to the data certer, this combination can reduce hundreds of desktop envinorments to one that's under bek and that he still has a far client. De a server can field multiple desktop mages, each tailored to a specific user's work besedon profiles stored in a directord in a director.

Then, when the user needs them these applications—and sometimes complete operating environments—can be "strength" over the network to the desktop, where they except beaulty with our the services of the control of the services of the services of the configuration of the services of the

bandwidth, memory and disk. Virtualization likes the streamed applications to reside in their own relicontained operating environments. They can be encapsulated, with their own Dynamic Lank Libraries (DLL) and registry settings, so that multiple versions of an application can covers withraction of the properation of the control of the control of the control of wrong — say, a PC gets a virus infection — a new desking image can be streamed

to the user without a visit from IT But there are were excusted. A robust network is required to award delays while streaming occurs—although applications can sometimes be started before they are fully downhouled, and parts or all of commentity used applications may be exched locally. If a cournecime can't be maintained, as with a lapped in motion, a battery and ware for particular and the particular and the must be excluded to a local delate. And there are exemple differences from traditional computing methods to require some after a delay for the control of the control of the substances of the particular and the control of the substances of the particular substances of substances substanc or both users and IT support staffers. At Parsons, Visconti installed a

streaming food called Appl spress from I indextors Jerchinology, Inc. in Los Angeles rus vegars ops. Now, he says, "I can jeet any body up, any where in the world, on any application in five minnies. As soon as I have a portical Joach in on the server, and in a few minutes, covers both his the new region."

every body has the new version."

But Appl spress is and a convention also fits are distribution to told. A Parsons engineer indicates it as Web portal which protect he is going to work on, and a homegrown configuration main agerment system instructs. Appl spress to street in the needed coefficient in the restreet.

his desktop. It also streams configuration parameters related to pentiers, plotters and other desires. "First, the server establishes whether the user has the application on his dosktop." Viscouri says. "It not, it streams just enough so it starts to execute." While Likhue inventory of deskton

contents, AppPapress can also find and report bootleg software, he says. Viscontisms Parsons may have saved as much as St million last year from the streaming technology, which served 600 P/s. "We are cutting the cost of TI support almost to nothing," he says.

And Visconti says the "un-demand" nature of streaming — the user gots the application only when he needs it and for only as long as he needs it—has important software licensing benefits as well. He is striking enterprise agreements with software vendors that allow on when the based on actual usage.

quarter. Plat land of agreement enables Parsante to install all of a sendor's products on Appl-spress servers while paying for only the ones actually used, he says. And new applications see to users in intuntes, incl. days.

Alternate Approach

The Cheeland Manneigal school Ise trict takes 3 slightly different approach, using a part of complementary prodnets for software streaming it uses the software streaming Flatform from Ardenee line, research people of the State System first Is or stream a standard "base layer"—the operating system plus the core application of that all use or speed, such as Microsoft Office and Address drobot —on such of 18,000

If a local machine becomes infected or corrupted in some way, it is simply relovated using a new desking image streamed from the data center, and the user is back up in minutes. The dream worry about Jayering applications on top of that," says school district CO. Thomas, Inordy.

At the application layer, the school destrict uses Application fayer, the school destrict uses Application from Applications Phase Alox, Calife, to provide applications that vary by user out user group, such as several pendemath students at a particular school, It has into Active Directory for student posities, and it can support software likense management by meeting application use, Bender says.

Streoming has made it possible to

than have servers distributed around the metropolitian area, Render says, Bin, the adds, that wentfal not have been practical without anetwork that features follow see their links to each school. Russell Investment Group in Taconta, Wash, has a number of Wijadows XP deskings, which in calls "trim clients," that receive applications published from Citris Presentation Server Although it.

with the control of t

media, such as wise, has required compromises on a hybrid client computer injurished in which business applications are different of the local desidtion of the control of the local desidtory tai Sofficial. That will provide the benefits of server-bosed computing at a lower enst, with reduced complexity and increased flexibility, he says. Sofficial creates "encapsulated"

virtual applications on a server and streams them to desktops as requested by authorized users (see illustration). This creapsulation, or wrapper, has a number of benefits, Nelson says.

Application testing is cavier because receposation eliminates DLL conflicts and permission problems. It also reduces the number of servers required for physical solation of applications. Russell says he was able to reduce, the number of Gifris servers by 50%. Migration to Windows Vista will be far easier than earlier upgrades were, Nelson says, because the applications

Nelson says, because the applications are already abstracted from the local operating system.

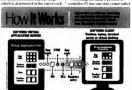
Running applications on the desktop gives users better performance. Nelson says. The PCs Russell buys today have

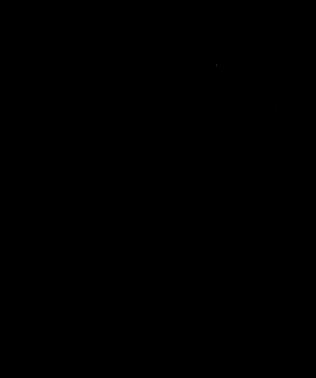
numming appearations on the destrop gives users better performance. Notion says: The PCs Russell buys today have dual-core precessors. Rel to ACB in memory, powerful video capabilities to the properties of the properties of the head or network lanency it just makes more some to run applications locally, while still criving the benefits of centralized desktop maintenance that streaming offers, by says.

Netson sums it up this way: "In a perfect world, I'd love to go all thincient, but that's not going to happen. What people want is rich content. People are becuming more mobile, and more richly connected." b

Virtualization Success Stories
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vrhasization paid off for lave IT groups

O www.computerworld.com/hardware





STRATEGIES&TACTICS

Continued from page 22 of fat clients, and some IT managers

of fat clients, and some IT managers turned to "thin clients" and "network computers," basically dumb terminals with a grade-school education.

The three days, operating section

with a grade-school education. But these days, operating system upgrades, new applications, bug fixes and security peaches have escalated in frequency. Users are more likely to install their own applications and even demand that I'll install special software for them. Substantial portions of I'r staffs review from desktop to desktop,

keeping PCs running properly.
Enter virtualization — which isolates the application from the operating system and other applications — and streaming, which delivers the applica-

tion to the user. By moving the management of desktops to the data center, this combination can reduce bunder lock and reference to remember to one that's under lock and key, while giving the user the libusion that he still has a far client. Or a server can hold multiple desktop images, each tailored to a specific user's work based on profiles stored in a directory.

on profuses stored in a directory.
Then, when the user needs the tension of the complete operating environments—can be "streamed" over the network to the desktop, where they execute locally, without the server and communications overhead that comes from radiational client server or thirr-dient streaming of just those pieces of software actually needed for that session—perhaps just 20% of an applications, one maintaining the demand for

bandwidth, memory and didi.
Virtualization inlows the streamed applications to reside in their own nelf-contained operating environments.
They can be encapsulated, with their own Dynamic List Elbarries (OLL) and registry settings, so that multiple versions of an application can ocetat without conflicting. When something post works — says. PG gets a virus infection — a new desktop image can be streamed to the user without a visili from IT.

But there are some cavents. A rebust memory is required to avoid delay, while streaming occurs—although applications can sometime be traited before they are fully downloaded, and papers or all of commonly used applications may be eached locally. If a connection can't be maintained, as with a lipstop in motion, whatever soft-ware in meedou until a connection can't be maintained, as with a lipstop in motion, whatever soft-ware in meedou until a connection in resorted must be eached to a local disk. And there are enough differences from traditional computing methods to require some attitude alignment on the part of the connection and the connection is resorted.

of both users and IT support staffers.
At Parsons, Visconti installed a streaming tool called AppExpress from Endeavors Technology Inc. in Los Anjests two years ago, Now, he says, "I can get anybody up, anywhere in the world, on any application in five minutes. As soon as I have a patch, I patch in the server und in a few minutes.

everybody has the new version."
But Applicagrees is not a convention-alsoftware-distribution tool. A Parsons engineer indicates via a Web portal which project he is going to work on, and a homegrown configuration management system instructs Applications to the state of the project of the pr

tion parameters related to printers, plasters and other devices. "First, the server establishes whether the user has the application on his desktop," Visconti says, "If not, it streams just enough so it starts to execute." While raking inventory of deskton

contents. AppExpress can also find and report bootleg software, he says. Visconti says Parsons may have saved as much as 51 million last year from the streaming technology, which served 600 PCs. "We are cutting the cost of IT support almost to nething," he says. And Visconti says the "on-demand"

And Visconti says the "on-demand" nature of streaming — the user gets the application only when he needs it and for only as long as he needs it — has important soft ware licensing henefits as well. He is striking enterprise agreements with software wendors that allow payment based on actual usage, which is determined at the end of each quarter. That kind of agreement enables Parsons to install all of a vendor's products on AppExpress servers while paying for only the ones actually used, he says. And new applications get to

Alternate Approach

The Cleveland Municipal School District takes a slightly different approach using a pair of complementary products for software streaming. It uses the Software Streaming Flusform Approach (Software Streaming Flusform Approach (Software Streaming Flusform Cleveland Approach (Software Streaming Flusform Cleveland Approach (Software Streaming Flusform Cleveland Approach (Software Software S

If a local machine becomes infected or corrupted in some way, it is simply rebooted using a new desktop image streamed from the data center, and the user is back up in minutes. "The dream is to get all the desktops identical then worry about layering applications on top of that," says school district CIO

At the application layer, the school district uses AppStream from App-Stream Inc. in Palo Alto, Calif., to provide applications that vary by user ouser group, such as seventh grade math students at a particular school. It taps into Active Directory for student profiles, and it can support software license management by metering application use, Bender says.

Streaming has made it possible to centralize IT into one data center rather than have servers distributed around the metropolitan area, Bender says. But, he adds, that would not have been practical without a network that features IGht/sec, fiber links to each school.

Russell Investment Group in Tucoma. Wash, has a number of Windows XP desktops, which it calls "trim clients." that receive applications published from Citris Descentation Server Although in will continue to use Citrix for remote access and delivery of client (server applications over its WAN, during the coming war Russell plans to migrate to Microsoft's SoftGrid for delivery of applications to fat clients, says Greg Nelson, a senior technology consultant He says the need for access to rich media, such as video, has required compromise on a hybrid client computing model in which business applica-

ing mode (in which business applications are delivered via Citric but rich content is redirected to the local desltop via Schford. The will provide the part of the content of the content of the alower cost. with reduced complexity and increased flexibility, he says solf-fird creates "encapsulated" virtual applications on a server and only the complexity of the content of the content of the part of the content of the content of the content of the part of benefits. Nelson says, and under of benefits, Nelson says, application testing in exister because

and permission problems. It also reduces the number of servers required for physical isolation of applications. Russell says he was able to reduce the number of Citrix servers by 50%. Migration to Windows Vista will be far easier than earlier upgrades were.

Migration to Windows Vista will be far easier than earlier upgrades were Nelson says, because the applications are already abstracted from the local operating system.

Running applications on the deaktop gives users better performance, Nelson says. The PCS Russell buys today have dual-core processors, IGB to 2GB of memory, powerful video capabilities and cheap disks. With no server overhead or network latency, it just makes more sense to run applications locally, while still engloring the benefits of centralized desktop maintenance that streaming offers, he says.

streaming offers, he says.

Nelson sums it up this way: "In a perfect world, I'd love to go all thinclient, but that's not going to happen.

What people ware is rich content.
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O were computerwork! combustions



TRM

_INFRASTRUCTURE LOG

_DAY 16: It's out af control. It takes people farever ta access...everything. Nobody can get anything done. Ne're so inefficient. There's got to be a better way.

_DAY 17: Gil says he's found one: aerodynamic bodysuits. He says everyone will be able to work faster and better now

_DAY 21: I've token back contral with IBM MebSphere Partal. It seamlessly integrates our apps, processes and infa. People have what they need to be more effective. Now we have a custamizable interface that puts everything at our fingertips.

_Productivity is up. Gil says that's great, but he refuses to take aff his suit.





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Panking Operational imperatives, customer demands and foreign competition are forcing a but sof IT investment that will transform Chinese banks.

SHANGHAL

N THE first I0 months of 2006, Chinese regulators uncovered 776 bonking crimes, including 206 cases involving more than a million yuan (\$125,000 U.S.).
Fraud and other irregularities at Chinese banks added up to \$950 Mr. form 2004, according to the China Banking Regulatory Commission.

In one widely publicized case last summer, a government sudit uncovered financial crimes and bookkeeplog irregularities totaling \$2 billion yuan (\$6.65 billion) at the state-owned Agricultural Bank of China, the country's second-largest bank in terms of assets. With losses that big, it's no wonder

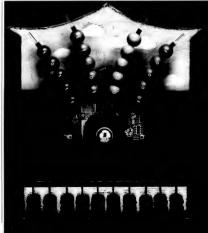
With losses that big, it's no wonder Chinese banks are investing beavily in risk management technology. For example, Agricultural Bank of China last year rolled out a new real-time menitoring system to reduce fraud.

But adopting technology for risk management and fraud control is only part of the Chinese banking industry's agenda. Banks are centralizing operations, improving financial reporting, automating manual processes, improving customer service and developing new products to compete in an expanding marketplace. And like their counterpass; in the

And like their counterparts in the U.S., many are feeling the pinch of new regulations. IT is at the heart of all this activity, and the scale and speed at which the Chinese banking industry is ramping up may be unprecedented. "The scale is tremendous," saws

Elas Boltansis, director at the Paris office of New York-based consulting firm Opera Solutions LLC. Moreover, Chinese banks have to upgrade all their systems at once because they are behind in every area. "This is a problem U.S. banks never had," Baltansis says, Chinese banks are buying new IT systems" across the board," for areas such as core banking platforms and risk mansarement operations, as well

as physical infrastructure systems



such as ATMs, says McKinsey & Co. partner Chris Ip, who heads the New York-based management consultancy's

greater China FT practice Until now. Chinese banks have onerated in a fundamentally different way from banks in the U.S. In many Chinese banks, each branch borrows and lends money almost as if it were a stand-alone business, says Colin Lawcence, risk enterprise and transformation leader for greater China and the Asia-Pacific region at IBM Global Business Services. For example, if a hranch needs money to issue a loan, it will turn to the interbank market - where Chinese banks lend money to one another - and pay for the privilege.

*If each branch sets its own prices and lends its own money, it's obviously inefficient," Lawrence says, "By having a common system, you can combine all the deposits and all the loans from the entire hank, reducing the need to go to the interbank market

One organization that appears to have gotten ahead of the wave is Bank of Communications Co., the fifthlargest bank io China. In August, it completed a project to centralize data for its retail operations, with the belo of Sterling Commerce Inc., a Dublin, Ohio-based IT consultancy.

Working with a Western partner is a common practice among Chinese banks. Bank of Shanghai, for example, hired Hewlett-Packard Co. two years ago to build a standards-based service center that reduced the costs and processing time of online transactions. HP in turn worked with Temenos Group AG, a provider of banking systems in Geneva-

Bank of Shanghai is considering working with Temenos again, says Chen Chen, an IT manager at the bank. But Chen says foreign vendors must work to localize their systems for Chinese needs - beyond just adding Chinese character ort. "Business requirements are different from abroad " he explains. For example, Chinese banks still need

810 JOB ers are huge on not and Commercial Black of Chica 60- branches AR of America (the world's largest book

5.700 transhes

to improve nonperforming-loan ratios and transparency, says Michael Araneta an IDC Financial Insights analyst based in Singapore. Converting paper processes to electronic systems is also critical, but so is organizational restructuring be says. "The benefits of having straight-through electronic processes - such as increased productivity of staff improved turnsround times for products, elimination of errors and better

management of operations costs - will be limited if Chinese banks continue to have systems that are not interested and if branches continue to operate as islands by themselves." Araneta says But with data centralization comes the challenge of keeping all this newly

accessible data safe. Here again Chinese bunks are working with international vendors to take advantage of their experience and best practices. And those are sorely needed. A

Sterling Commerce study showed that many Chinese banks transfer files using free software that they've downloaded from the Internet "Freeware has a lot of security loop-

holes," says Albert Visscher, Sterling Commerce's marketing director for the Asia-Pacific region, It increases the risk of data breaches and can cause operational problems, he says.

Badly managed credit risk is another hig problem. Chinese banks are notorious for bad loan portfolios and

government ballouts. "In practice, many [Chinese] banks are not able to discriminate between high- and lowrisk borrowers and price accordingly." says Mark Lawrence, a principal at Mc-Kinsey, Credit risk management systerms can improve banks' bottom lines and create apportunities for new man enue by making it possible to charge

higher-risk horrowers higher rutes The theory is known. The main challenges now are practical implementation challenges," he says.

New Competition

New international competition is raising the stakes. In December, the Chinese government opened the country's banking sector to foreign firms, and at least 10 banks have already applied for licenses to incorporate in China. Incorporation will allow them to issue credit cards and offer yuan-denominated bank accounts to Chinese customers. And those customers might be interested in the new arrivals, because the quality of service offered by Chi-

nese banks has been a sore spot. For example, at the country's largest bank, Industrial and Commercial Bank of China wire transfers can take three days. In contrast, they're virtually instantaneous in many other parts of the world. And a Chinese bank custome who loses an ATM card may find that it's less onerous to open a new account

than to get the card replaced. Advanced IT enables foreign banks to offer better service, which cao be particularly attractive to affluent customers, says Christopher Formant, executive vice president for global financial services at BearingPoint Inc. a McLean, Va.-based IT outsourcer with a strong presence in China.

To meet that challenge, Chinese banks are ramping up quickly. "I know of a bank rolling out a new core banking platform in less than one year," says Ip. In the West, such a project could take years, he adds.

Chinese banks are able to move so quickly in part because they're deploying new technology so late in the game. The problems they're addressing have already been solved by other banks. "The solutions exist." Opera Solutions' Rahassis save But it's not quite as simple as it sounds

because the software has to be custom. ized. "Off-the-shelf [software] will cover 90% of the distance," he says, "The competition takes place in the last HPu." Many banks in China underestimate the complexity of implementation, lp says, citing the frequent pood to build

Chinese-language interfaces. But some say that Chinese banks primarily lack the skills and experience needed to use this technology

"It is time for the big banks to focus on the people and process side," says. Charles Richard, co-founder of Quantitative Risk Management Inc., a risk manaccment consulting firm in Chicago.

Chen echoes this view *I don't think the weekness lies on the IT side " he says, "It's on the business side."

To keen their hest customers and compete with foreign banks. Chinese

banks are also investing in technology to support new lines of business. Last year, for example, Arricultural Bank of China went live with software from London-based Misvs PLC to handle trading and risk management of treasurv market derivatives and erroctured products. It uses a straight-through processing system that covers transactions all the way from the front office. to the back office

The move was also driven by the China Banking Regulatory Commission's requirement that banks implement technology before engaging in certain types of business

"We did it to meet CBRC's regulatory requirement," says an IT manager at China Merchants Bank, another early adopter. "If we want to trade derivatives, we must have this kind of system." And if China needs it. China will

have it. "The pace of change and the growth is extraordinary," Formant says. He predicts that over the next decade. Chinese banks will take their place among the world's leading financial services companies

Richard acrees, "I see the evolution not taking III years or five years" he says. "I see these modern methods coming together very quickly."

Wendy Yu and Patrick Martino contributed to this report. Trombly is a freelance business and technology writer based in Shanghai. Contact her at maria@trombly.com.





es version of your retirement-upe self at CareerBuilder.com's Age-o-Matic Web site, where you can upload a photo of yourself (or your dog, for that matter) and then answer three randomly selected questions about your job, your boss or your company. The site then adds gray hair (or removes large patiches of it), wrinkles and other extreme effects of aging. Warning: The questions are stanted to guarantee an off-putting result. For example, the choices for the fill-in-the-blank query "I work in are "a funk," "a haze" and "a hazmat suit." If your answer would be "I work in a state of constant biles for the best boss in the world," this sun't the site for you. But then, you probably aren't spending work hours looking up time-wasting sites on the Web.



What are some stops they're taking to address these leases? To gain boardroom condibility if there isn't any kind of montan-

governance in place. to take advantage of opnoming op pertunition? Networking and staying connected to inclustry groups, such as the

idealy prollymins themselves for their next

ment or scorecard process in place, CIOs are interviewing business executives to see how they view the technology area. Then, what are the next steps you want to improve from an FI-business alignment perspective? A lot of organizations don't have that two of

at types of concerns do CIOs have s, from I is in the context of their curren Society for information Management, There role - do they have a seat at the table of the include local groups that provide you with salve committee? And if they do, the that fabric in your local region.

To Certify or Not to Certify: Getting Paid for Your Skills



"gold standard" certifications like the PMP and CISSP remain highly valued. But a lot of certifications aren't keeping up with the pay burnes. that IT workers can get for skills that aren't certried. The employer surveys are telling us that employers increasingly desire workers who understand the industry in which they're work ing and have experience is in specific systems. software and solutions," says Foote "And they want workers who can operate under tough dearlines and withstand a certain amount of organizational discomfort. If you're that land of person and you have demonstrated technical skills, not being certified will probably not matter if you have other important strengths - business, customer, interpersonal - in the night proportions for the sob."



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MEMS

MicroFlectroMechanical Systems (MEMS) technology enables the creation of tiny machines that can work with microelectronics MFMS also refers to the machines themselves. which add very small sensors and actuators that allow microchipcontrolled systems to sense and control their environments.

SY RUSSELL KAY THE YERY rich are different from you and me," wrote F. Scott Fitznerald. Similarly, very small things operate under different constraints than the machines and tools we're accustomed to seeine and using in everyday life.

In the microscopic world, the standard principles of classical physics don't abuses hold true. Factors such as weight, inertia and thermal mass become less important, while forces related cision engineering. to surface area, including friction and surface tension take on much greater significance. Think shows how an ant is able to carry something many times its own weight or a water bug can skate across the surface of a pond. It's a different world down there

We humans can take advantage of these differences through MEMS, in which tiny, sometimes microscopic mechanical elements are created on silicon chips using fabrication technologies similar to those used for making integrated circuits.

MEMS - also referred to as micromechanics or micromachines - can refer to both the technology and the specific

devices, which range from a micrometer to a millimeter in size. Smaller devices are called NanoElectroMechanical Systems (NEMS) or simply nanotechnology. MEMS and NEMS operate using the principles of mechanics in tiny versions of the classical simple machines (inclined plane, wheel and

axle lever pulley and screw), Today, MFMS refers to almost any miniaturized device. regardless of whether it's based on silicon technology or traditional pre-

Why Go Small?

lost as hinds can fly but elephants can't, MEMS devices can easily do thines that are problematic for larger ones. For example, sensors and actuators are the most costly and least reliable parts of many human-scale machines and control systems. Large devices can't move as quickly or as precisely as microscale machines: precision in large machines is expensive and often difficult

to mass-produce In contrast, MEMS technology allows us to create complex electromechanical systems that can move. position, regulate, pump

and filter and to manufacture them in quantity using batch fabrication techniques originally developed for the semiconductor industry. This puts the cost and reliability of such small sensors and actuators on a run with those of electronic integrated circuits enabling superior performance at much lower cost.

How to Make MEMS MEMS are typically made on a silicon substrate using some of the came missofibulestion

technologies findeed sometimes the same machinery) designed to produce microprocessors and other electronic integrated circuits The micromechanical components are fabricated using

micromachining processes that selectively remove parts of the silicon wafer or add new structural layers to form a variety of mechanical and electromechanical devices. We speak of bulk micro machining, where the entire thickness of the silicon wafer is used and surface micromo

chining, in which a thin layer of silicon is etched to make mechanical structures beneath it measable Three basic processes are used to make MEMS: denosition, photolithography and etching. Deposition adds thin films of material onto a sub-

strate, using electroplating. physical and chemical vapor deposition, and sputtering (in which metal atoms are knocked off a target of pure metal with ions from a plasma and then deposited on the substrate). These deposited materials can be polymers or

· A useful tutorial on MEMS: http://fo contribute net/-trimmens/m http://mems.sendis.gov trops of Nison

N. Cleland (Sorrow, 2002) meors, MEMS and Smart Devices, by Julian W. Gordner, Villey Veredon and Osen O. Awadolkurim (John Wiley & Sons, 2001) · Microengineering, MEMS and Interfacing: A Practical Guide, by Danny Banks (CRC, 2006)



metals such as gold, nickel. aluminum, chromium, titaabout toponton or silver Photolithography is used

with both deposition and etching processes to transfer the pattern or blueprint of the device onto the substrate. The substrate is first evated with a photosensitive material, after which parts are covered up with a mask. It can then be selectively exposed to a radiation source (typically light). The exposed region will have different properties than un-

exposed areas and can then be In wet etching, material is removed selectively by dipping it into a chemical solution that can dissolve it. In dry etching, also called reactive-ion etchine, the substrate is put inside a reactor vessel, several gases are introduced, and a plasma is created by a radio frequency power source. Plasma ions are accelerated toward the surface of the material, where they react to form other gases In addition to this chemi-

cal process is a physical process similar to sputtering, in which high-energy ions knock atoms out of the substrate without a chemical reaction taking place, Balancing chemical and physical etchine rates allows different effects including sidewalls with different profiles, from

rounded to vertical. A newer etching process uses alternate injections of two different gases. creating etch-resistant

polymers on videwalls that Annierstal sunfaces White of lows deep etching, which can cut completely through the cilicon substrate Some other processes --

ones not derived from semiconductor technology — are used in MEMS fabrication. These include molding and electrical discharge machining.

Applications Although the technology is

still in its infancy, MEMS devices are found in many places, including ink-jet printers largy-screen TVs, airhag deployment systems, and pressure sensors used in car tires and some blood-pressure systems. MEMS are also used in the motion-sensing controller featured in Nintendo's Wii video game system.

In telecommunications, MEMS has become nearly synonymous with the arrays of tiny tilting mirrors used for optical switching fabric. With its need to reduce the size and weight of objects lifted into space, NASA uses MEMS for microgyroscopes, microthrusters, mass spectro-

meters and other devices. Kay is a Computerworld contributing writer in Worcester. Mass. You can contact him at russkav@charter.net.

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Looking Into What We Can Look Into

When it comes to employee monitoring, a state agency's hands are often tied. Our manager seeks to change that, By C.J. Kelly

HAVE BEEN rehad to imme. I tigate an employee who may be violating seency policy regarding computing resources. That sounds straightforward, but this situation has put into sharp relief the difficulty we have io a state agency when it comes to

monitoring employees. I worked for years in the private cartor where things were cut and SECURITY dried. If IT security got a request from

personnel to investigate an employee's in-house activities. we would do our thing and gather reams of data that we could turn over to perconnel Usually, the employee ended up being escorted from

the building shortly thereafter. We had the tools. We knew what we were doing. We had no hesitation, because we were not violating anyone's privacy and our job was to protect the company. All employees signed an accentable-use policy when they were hired. and it was spelled out to them that they would be monitored

Everything was crystal clear. In the public sector, it sometimes seems as if employees have more rights than is anpropriate. They are so protected by state law that manage ment often has its hands tied when confronted with misconduct. Most state arencies do not implement Web filtering or monitor employees' online behavior. Exceptions exist among agencies that protect the public, like fire and police. but most state agencies seem to assume that employees are on their best behavior. It's

like "don't ask, don't tell" for So what can a powernment entity do when suspicion

arises that an employee is misusing network computing resources? In a way, we are put in the position of having to

hope for the worst. If someone was suspected of doing something that is patently illegal such as download. ing child normography, he would be open to criminal investigation. Law enforcement - in the

form of the police the FBI or the attornev general's office - would have to be called in But subot about an omelouse who spends work time trading on ellay, chatting via instant

messaving, sending and reading personal e-mail or browsing the Internet for hours at a time? What can visu do as a public-sector supervisor, when you suspect that an employee is wasting time with such activities, when the only evidence

you have is that he always anickly hides a window on his monitor when you approach? If you don't have the right to deploy monitoring tools, all

hard data to back it up. Without the proper tools, we can't norserve the chain of exidence in a

security investigation. After laving out our dearth of options to my boss. I told him that we needed to take a close look at the policies of our own secrey, of the department the agency belones to and of the state to see how we can revise our policies to allow for insider investigations. Any revisions would have to avoid conflicts with those existing policies Assuming we can

find enough wrightle room to

change that would allow us

to proceed effectively when employee behavior has to be investigated, the next step would be to define the investigative process we would use. Then we would want to make sure that agency management would sign off on this new policy Mesowhile we could look into the technologies that are available for conducting the type of investigations that

we hope to pursue. Legal Ramifications

The technology aspect was easy enough to investigate. As a first step. I called a friend I used to work with in the private sector who handles security investigations. He explained how his current company performs investiga tions, and be recommended some tools, gave me copies of

the forms the company uses and went over the process the company follows. Going off in a different

direction, we came across a recent court opinion (No. 05 30177) from the U.S. Court of Appeals for the Ninth Circuit. The case examined the question of whether an employee should have any expectation of privacy in using his workplace computer. This is a small except from the opinion temphosis minel:

Thus, given the nature of our constitutional inquiry, we think the California court's reasoning is compelling. Social norms suggest that employees are not entitled to privacy in the use of workplace computers, which belong to their employers and pose significant dangers in terms of diminished productivity and even employer liability. Thus, in the ordinary case, a workplace computer simply "doles! not

provide the setting for those stimate activities that the [Fourth] Amendment is inte ed to shelter from covernme interference or surveilli Oliver v. United States, 466 U.S. 170, 179 (1984): see also Muick. 280 F.3d at 743 CTThe abuse of access to workplace computer is so common (workers being prone to use them as media of

resio, titiliation, and other implement some sort of policy stertoinment and distraction that reserving a right of inspection is so far from being unreasonable that the failure to do so might well be thought irregoussible." Employer monitoring is largely an assumed practice. and thus we think a disseminated computer-use policy is entirely sufficient to defeat any expectation that an employee

> might nonetheless harbor. Failing to monitor employee behavior *is so far from being unreasonable that the failure to do so might well be thought irresponsible"? Those words hold have significance for us. I need to get this information that he who cao effect a policy change at the state level

Meanwhile, I am turning to Guidance Software, which produces investigative software called EnCase Enterprise. In fact, I'm giving the company

a call tomorrow. WHAT DO YOU THINK? This week's purpal is weeken by a mail

security manager, "C.J. Kelly" whose name and employer have been discussed in: your reasons. Contact her at resoluyehoo.com, or join the discussions to our security bioos: comes

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SECURITY LOG



DOWNTIME: 7FRO

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PAUL GLEN

How to Cope With a Managerial Meltdown

E'VE ALL SEEN it happen, Selfdestruction, Career-limiting behavior Professional suicide Some previously normal and capable IT manager suddenly starts acting

strangely and destructively. He figuratively sets his hair on fire and runs around the building screaming of cabals at the top of his lungs. And we all stand by, watching the slow-motion train wreck, shaking our heads and

whispering yet not knowing what to do.

If you are the supervisor of such a person, worker got a challenge on your hands. What do you do with a solid performer who seems to be going down a rathole and may take others with him? What do you owe the organization, the manager and the manager's subordinates?

The answer to these questions rests with the answers to a few more 1. Why is this happening? Of course every case is different, and the reasons may not he immediately apparent. But over the years. I've noticed a few causes that seem more common than others. They include these:

Personal relationship disruption: Death. divorce and breakups seem to top the list. The disruption of a family or relationship is a devastating experience. Grief, anger and confusion spill over ioto the workplace and cao lead to behavior that's confusing, in part, because it's unrelated to the work

Didn't get the jet: When someone is passed over for a promotion or a desired assignment, he cao react unpre dictably. He may try to undermine the person who did get the job, lashing out or perhaps trying to foment a coup. He

may simply try to provoke others to confirm his value and worth

In over his head: Let's face a sad fact: Some managers have been overpromoted. They rise too bigh or too fast for their own good. lacking the knowledge, skills or maturity for the position they hold. Some discover that they wanted the title but not the job. Most managers who are in over their heads know it. They can panic or react unpredictably. They see no way back to where they belong and can become unhinged by the experience.

Protest: Sometimes a manager sees his strange behavior as a solemn duty or moral crusade. Rightly or wrongly, he may feel that a decisioo made or an approach taken is so damaging to the committation or on unathing that is requires an extraordinary response - even a self-damaging one. He may realize that he is risking his career but

be willing to suffer the consequences. Wants to be fred: Sometimes a manager feels trapped in his job. He doesn't really want the job but doesn't feel free to quit or change. He may not want to walk away from the money, give up the status or face the wrath of a disapprovhopes that you will solve the problem by taking the decision out of his hands. Montal illness: Sometimes a seem

ing mental breakdown is just that: a descent into madness (that you home will be temporary). Depression and substance abuse are common. No one is completely immune to the possibility of such illness.

2. Is this person's cureer in this orns salvageable? You need to ask if the individual involved can be rehabilitated cither as a manager or as an individual contributor. If given time and support, can be return to the mainstream? 3. Are there legal or cultural constraints on

4. Does this person have unique and essen-

tial knowledge or skills?

With the answers to these onestions, you can generate and evaluate options within the context of the situation. When evaluating these options. I'd suggest that you keep two priorities uppermost in your mind: to minimize damage to others (subordinates, peers, clients) and to treat the individual fairly The most effective responses that

I've seen include these: Dismissal: Sometimes you need to fire a person to protect the staff and the organization

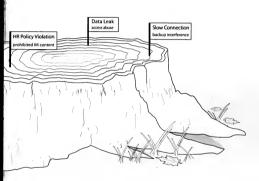
Time in the wilderness: Working alone on some noncritical project can give a person time to calm down, reflect on past behavior and prepare for reintegration into the group.

An important special assi him work on his own, but give him a project that is genuinely critical to the

Meltdowns happen. How you handle them not only helps those in distress but communicates your values to the rest of the organization. When you've got one on your hands, think carefully, but don't think for too long before acting.

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How to Cope With a Managerial Meltdown

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strangely and destructively. He figuratively sets his hair on fire and runs around the building screaming of cabals at the top of his lungs. And we all stand by, watching the slow-motion train wreck, shaking our heads and

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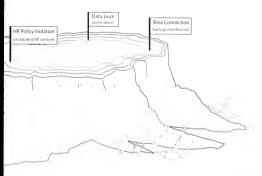
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Kon Bagna (506) Associate editor community content RESEARCH Mari Keele Research manager Occasio Wilson

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(506) 800 8106 (506) 271 8015 Engeno Demottro, Monica Sambataro Senor copyeditors

GRADUIC OFFICE

range and arms

Stephenie Facebor Desendrector

Ower Edwards Associate an director ADMINISTRATIVE SUPPORT

Linda Gorgone Office warager (506) 820, 8125 CONTRIBUTING FOITORS James Entde 4817) 506 1873

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CONTRIBUTING COLUMNISTS chael Cartenberg, Paul Clas, he Kalpeske, Michael R. Hugos, ernten A. Hoy, Eart Porkles, wiele Gubbles, Bress A. Mousel

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Cindi Howson author of

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OF METRIC ORLANDO

Continued from page 1

Hyperion

sample vendor, the consolidation of the industry has led to precisely that Lam very concerned that businesses will lone leverage to a result of this continued consolidation of many technology solutions." David Dowling, Hyperion Financial Management administrator at Flint Group, an

step in same direction."

Land Systems Inc. in Sterline Heights Mich applieded the more. Her company, which Ann Arbor Mich should condorigens and builds land and plier of printing inks, plates amphibious combat systems for the military, has been using and piements, said he also has concerns about the deal. "As Hyperion's Essbase product Hyperion has grown as a comfor eight wars, she said. name their customer service. and support has declined." he

TIMELINE

But because the openious is also a heavy user of Oracle's and althorates and have ERP applications, Maluzhinsky said, she has continually had

Stated Steppent Hyperion

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On the other hand, Diane

Maluzhinsky, a financial spe-

cial management software on

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to justify the use of Hyperion's online analytical processing tool over Drucke's Oescle has its own OI All

product but it didn't stand a chance against Manager she said. "It didn't have the strength Hyperion had

In addition, although General Dynamics uses Oracle's financial software to close its books, the Oracle software complishes those financial she noted. Therefore the comname has to dumn all the dara from Oracle into Essbase to be consolidated before sending

it to the corporate office each month, she said. "The combination of the two will make them very powerful." Maluzhinsky said

Questions Abound

Wayne Eckerson director of research at the Data Warehousing Institute, agestioned whether Hyperion's product development plans will continue arace under a new owner "Hyperion was doing well and has some innovative products in the pipeline " he said. Will Oracle leave Hyperion

What is While lit's not our intention to out all of our technology investments in the hands of a single vendor, the con-

solidation of the industry has led to precisely that. BART KLEIN, VICE PRESI DENT AND MANAGER OF ADD ICATION DOVE CONFINT UMB FINANCIAL CORP

alone? I doubt it. Will Hyperion continue to innovente? De-

However, Eckerson also sold

Hyperion's planning, budgetifter and consolidation software fills a big gap in Oracle's business applications strategy. He said the Hyperion products will give Oracle "a huge presence in the chief financial officer's office," helping it better compete against SAP AG.

com report, which evaluates BI tools, noted that Oracle took several years to leverage the Express Of AP engine it gained with the purchase of IRI Software in 1995. "I hate to think Essbase may fall to the same fate," she said. Howson noted, however that the move is a smart one for Oracle, considering the convergence of Bl and performanor management and Microsoft's entry into the market. Mark Monn, director of performance management

and research at Hyperion user Family Services of Metro Orlando, said he expects that the deal will prove positive for his openization

*For us, it would be a benefit. as we have a good relationship with Oracle and our primary database is [Oracle] 10e." Monn said. "It will hopefully allow us to leverage both products better, as I hope they will integrate the best of Oracle with Hyperion."

Paul Hamerman, an analyst at Forrester Research Inc., said Hyperion users should fare well because "Oracle wants to keep these customers renewing their maintenance contracts."

Oracle Targets CFOs, SAP With Hyperion Purchase a string of 28 promisitions by Oracle

CHARLES PORT IPS, resident of Ocarie, said that the company's \$3.3 billion acquestion of Hyperon Solutions will add critical analytical applications to its line of business. intelligence products.

"We weren't very strong in plan rung and budgeting," he acknowlextood. We had a small product there that had not done well. Oracle agreed to buy the Santa Clara, Calif., maker of BI tools lest week. The deal is expected to close

m Acril Phillips noted that the analytical tools gained through Oracle's acqui sation of Slobel Systems early last year will remain the centerpiece of racie's enterprise Bl offering. The Hyponon deal is the latest in since the start of 200% Hyperion said that about 12,000 customers use its softwere and that it employs about 2,500 workers. spread over 20 countries. The comcorry reported revenue of \$765.2 milion for the fiscal year that ended June 30, 2005.

David Mitchell, an analyst at London-based consultancy Ovum Ltd., noted that Oracle has been try ing to build out its own BI business. but its strategy and product offerings have been focused primarily on customers of its own software Mitchell said

"Adding Hyperion to the family makes it a best-of-breed player rather than just focusing on the traditional

Phillips, said that adding the Heerion financial analysis software to the Oracle product line will provide it with hetter access to compose chief financial officers. Therefore, Oracle will be able to push "a lot of other andications and took eto the CFO's office - mainly compliance and

vernence (software) that the CFO drives," he said In addition, Phillips not because "thousands of SAP custom

ers close their books with Hunerica products," the deal helps to further Oracle's cool of insection its conducts. into enterprises that may be using SAP wores, he added.

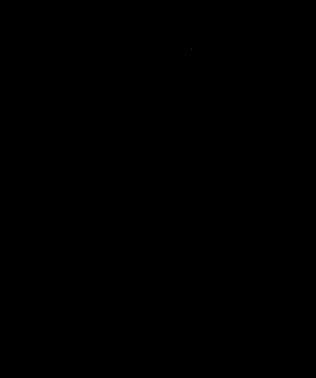
However, Mitchell said he doubts that the Oracle acquisition will make

much difference to SAP, notine that companies make big investments in their ERP softwere and don't switch

vendors lightly. in a letter to customers, Hyperion President and CEO Godfray Sulivan

send that the deal "vields immedia benefit to both Hyperion and Oracle Oracle's acquisition "entends perion's capabilities beyond the ance department with operational analytic applications and comple mentary BI tools from Oracle, Oracle customers will gain access to our

domain expertise in financial man agement," Sullyan wrote - JAMES NICCOLAI IDS NEWS SERVICE AND HEATHER HAVENSTEIN



Continued from page I

Hyperion single vendor, the consolidation of the industry has led to precisely that. I am very concerned that businesses will lose leverage as a result of this

continued consolidation of major technology solutions." David Dowling, Hyperion Financial Management administrator at Flint Grown an Ann Arbor Mich should nonplier of printing inks, places and niements said he also has concerns about the deal. "As Hyperion has grown as a company, their customer service and support has declined," he said "I think this will be a step in same direction."

In addition, Flint Group now runs Hyperion's financial management software on Microsoft Corn's SOI Survey and Dowling said he is con-

cerned that Oracle will force On the other hand Dinne

Maluzhinsky, a financial spesisting at Consent Description Land Systems Inc. in Sterling Heights, Mich., applauded the move. Her company, which designs and builds land and amphibious combat systems for the military, has been using Hyperion's Essbase product

for eight years, she said. But because the organization is also a heavy user of Oracle's **ERP applications, Maluzhinsky** said, she has continually had

TIMELINE

to justify the use of Hyperion's online analytical processing tool over Oracle's *Oracle bas its own OI AD

product, but it didn't stand a chance sesing Hyperion" the said, "It didn't have the strength Hyperion had."

In addition, although General Dynamics uses Oracle's books the Oracle roftware doesn't have a mechanism to consolidate those financial reports at a corporate level, she noted. Therefore the comname has to dump all the data from Oracle into Essbase to be consolidated before sending

it to the corporate office each month, she said. "The combination of the two will make them very powerful." Mahazhinsky said.

Questions Abound

Wayne Fekerson director of

research at the Data Warehousing Institute, questioned whether Hyperion's product development plans will contime anace under a new owner. "Hyperion was doing well and has some innovative products in the pipeline," he said. Will Oracle leave Hyperion

While (it's) not to put all of our technology intments in the ands of a single

vendor, the conedidation of the industry has led to precisely that BART ICLEIK, W.E. PRESI DENT AND MANAGER OF APPLICATION DEVELOPMENT

LIMB FINANCIAL CORP. alone? I doubt it. Will Hyper-

ion continue to innovate? I'm not sure."

However Eckerson also said Hyperion's planning, budgetine and consolidation software fills a big gap in Oracle's business applications strategy. He

said the Hyperion products will give Oracle "a huge presence in the chief financial officer's office," helping it better compete against SAP AG.

that the move is a smart one for Oracle, considering the convergence of RI and performance management and Microsoft's entry into the market. Mark Monn, director of performance management and research at Hyperion user Family Services of Metro Or-

Cindi Howson author of

com report, which evaluates

took several years to leverage

the Express Of AP engine it

gained with the purchase of

think Essbase may fall to the

Howsen noted however

same fate," she said.

IRI Software in 1995. "I hate to

BI tools, ooted that Oracle

the independent BIScorecard.

lando, said he expects that the deal will prove positive for his organization. *For us, it would be a benefit.

as we have a good relationship with Oracle and our primary database is [Oracle] 10e." Monn said. "It will bopefully allow us to leverage both products better, as I hope they will integrate the best of Oracle with Hyperion."

Paul Hamerman, an analyst at Forrester Research Inc., said Hyperion users should fare well, because "Oracle wants to keep these customers renewing their maintenance

Oracle Targets CFOs, SAP With Hyperion Purchase

HAMES MICCOL &

contracts." After or speciment #F0000 cases an increase in the control of the control of the control of the control of the cases and the cases are cases and the II to 2h000000 for informal or personnal ass in gramma to su. Cleaner Males (2017) Proporting himsterner (XXX) propositional IXXV (1907) 1809 1900 Earl (50 Fax (1917) 2809 8900 West \$609 990 year Camasso (\$000) or year Camas 4.50 neversh 6074hi 25000 hydrotensys 8 (6005) 25000 have seen for the common of the comm





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SHARK BAIT

FRANK HAYES . FRANKLY SPEAKING

Time to Reinvent IT

■ HEY'RE AT IT AGAIN. This time it's the Society for Information Management that has launched a program to convince kids they should become IT professionals. We've seen this before — remember a decade ago, when actor limmy Smits was hired by the Information Technology Association of America to "make IT hip, happening and cool for the kids out there"? (No kidding, those are the words an ITAA spokesman actually used to describe the program.)

Of course, there are two pagging little problems, First, kids aren't taking computer science courses - or going anywhere near them. And second, kids know that the really cool technology isn't in corporate IT shops - or anywhere near them.

As Computerworld's Thomas Hoffman reports on page 12, SIM is now targeting high school students and guidance counselors with presentations about IT career opportunities. Let's all wish them well. But don't expect much After all, these kids are swimming in a sea of

technology. They've never known a world without Macs and PCs. Nintendos and PlayStations Computer games, programmable robots, texting, bloes, homemade videos and Web sites - cool technology is all around them They learn as much about technology as they need to accomplish what they want to do. They don't see a need for lots of classroom theory. And

they don't have any use for a job that will make all this interesting stuff deadly dull. But it's worse than that Eventually they will grow up and start thinking about careers. That's when they'll notice that the most educationintensive jobs in IT are the ones that get shipped offshore first. They'll recognize that computer science courses are full of theory that doesn't

match real-world employers' needs. They won't waste their college time and money on that. Hey, in their shoes, we wouldn't either.

That's what SIM is un against. To these kids, a pitch for a computer science education and a corporate IT career sounds like just so much snake oil. Maybe it's time to stop selling IT snake oil and instead start reinvent-

ing corporate IT again. Look, our IT shops aren't based on today's reality. We expect computer science diplomas from job applicants because 30 years ago there was a glut of techies in the job market, thanks to the post-Sputnik push for better

science and math education. We stopped teaching literature majors how to program in Cobol (they were good at syntax and punctuation) and instead started hiring computer scientists to custom-build

our big, critical applications from scratch. That world is gone. Thday, there's no glut of young techies or big projects to custom-build. Today there's a constant stream of new technology, most of it at the edge of our networks, that

IT people have to master fast enough to solve a constant stream of new business problems We reinvented data processing to make use of that techie plut. It's time to reinvent IT to use the tech-saturated, quick-learning but theory-light labor pool we have now

Think we can count on universities to reinwest their computer science programs? It won't happen until we force them to. They're even more hidebound than we are. First clue: How many IT shops have a motto in Latin?

No. it's up to us to reinvent our IT shops, haved on what the business needs from us. That likely means understanding user needs, including quick and effective responses to user problems. And understand-

ing business needs, including rapid delivery of business functions. And the ability to keep the infrastructure running and to continually improve the edge technology to help the business succeed That's what we have to hire peo-

nle to deliver. Matching tech-sayyy. theory-light kids to those requirements may not sound easy - and

But it's better than simply hopin SIM will succeed at selling kids IT snake oil.



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